B1

6.

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
26 September 2002 (26.09.2002)

PCT

(10) International Publication Number
WO 02/074992 A2

(51) International Patent Classification[7]: C12Q 1/68

(21) International Application Number: PCT/IB02/00565

(22) International Filing Date: 25 February 2002 (25.02.2002)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
09/811,352 19 March 2001 (19.03.2001) US
10/067,514 4 February 2002 (04.02.2002) US

(63) Related by continuation (CON) or continuation-in-part (CIP) to earlier applications:
US 09/811,352 (CON)
Filed on 19 March 2001 (19.03.2001)
US Not furnished (CON)
Filed on 4 February 2002 (04.02.2002)

(71) Applicant *(for all designated States except US)*: **DECODE GENETICS EHF.** [IS/IS]; Sturlugötu 8, IS-101 Reykjavik (IS).

(72) Inventors; and
(75) Inventors/Applicants *(for US only)*: **GRETARSDOTTIR, Solveig** [IS/IS]; Smaragata 6, IS-101 Reykjavik (IS). **JONSDOTTIR, Sif** [IS/IS]; Vesturgata 73, IS-101 Reykjavik (IS). **REYNISDOTTIR, Sigridur, Th.** [IS/IS]; Storagerdi 8, IS-108 Reykjavik (IS).

(81) Designated States *(national)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW.

(84) Designated States *(regional)*: ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:
— *without international search report and to be republished upon receipt of that report*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 02/074992 A2

(54) Title: HUMAN STROKE GENE

(57) Abstract: A role of the human PDE4D gene in stroke is disclosed. Methods for diagnosis, prediction of clinical course and treatment for stroke using polymorphisms in the PDE4D gene are also disclosed.

HUMAN STROKE GENE

RELATED APPLICATION

This is a continuation of U.S. Application _________ (2345.2010-003), which was filed on February 4, 2002, which is a continuation-in-part of U.S. Application No. 09/811,352, filed March 19, 2001. The entire teachings of the above applications are incorporated herein by reference.

BACKGROUND OF THE INVENTION

Stroke is a major health problem in western societies. It is the leading cause of disability, the second leading cause of dementia and the third most common cause of death (Bonita, R., *Lancet 339*:342 (1992)). As it is more common in the elderly, the public health impact of stroke will increase in the next decades with growing life expectancy. Almost 1 out of 4 men and nearly 1 out of 5 women aged 45 years will have a stroke if they live to their 85th year (Bonita, R., *Lancet 339*:342 (1992)). Strategies to diminish the impact of stroke includes prevention and treatment with thrombolytics and possibly neuroprotective agents. The success of preventive measures will depend on the identification of risk factors and means to modulate their risk.

The clinical phenotype of stroke is complex but can be broadly divided into ischemic and hemorrhagic stroke. The majority of strokes (80 to 90%) are ischemic, caused by obstruction of blood flow through extra- or intracranial vessels (Mohr, J.P., *et al.*, *Neurology, 28*:754-762 (1978); Caplan, L.R., *In Stroke, A Clinical Approach* (Butterworth-Heinemann, Stoneham, MA, ed 3, 1993)). The remainder are hemorrhagic strokes (10-20%), resulting from ruptures of intracranial vessels. Ischemic stroke can be further subdivided into large vessel occlusive disease, small vessel occlusive disease, and cardiogenic stroke. Transient ischemic attack (TIA), although not defined as a stroke because the signs and symptoms (which are the same as for stroke) last for a short period of time (less than 24 hours, usually 5 to 20

minutes), indicates a serious underlying risk that a stroke may follow, and it is believed that the same pathophysiologic mechanisms are responsible for TIA and ischemic stroke (Caplan, L.R., *In Stroke, A Clinical Approach* (Butterworth-Heinemann, Stoneham, MA, ed 3, 1993)).

The predominant risk factor for all types of stroke is hypertension (Thompson, D.W. and A.J. Furlan, *Neurosurg. Clin. N. Am., 8*:265-269 (1997); Agnarsson, U., *et al., Ann. Intern. Med., 130*:987 (1999)). Hypertension is in itself a complex disease as are the other known secondary risk factors, diabetes and hyperlipidemia. In addition, there are environmental risk factors such as smoking. Stroke is therefore considered to be a highly complex disease consisting of a group of heterogeneous disorders with multiple risk factors, genetic and environmental.

The identification of genetic determinants of common diseases such as stroke, which may result from an interplay among multiple genes and between genes and environmental risk factors, has proven to be a difficult task. Studies of the genetic contribution to stroke have mainly focused on rare Mendelian diseases where stroke is a part of the phenotype or on finding association with possible candidate genes such as genes contributing to hypertension or lipid metabolism. Several genes have been identified that play roles in the pathogenesis of rare stroke syndromes such as the *Notch3* gene in CADASIL (cerebral autosomal dominant arteriopathy with subcortical infarctions and leukoencephalopathy) (Tournier-Lasserve, E., *et al., Nat. Genet., 3*:256-259 (1993); Joutel, A., *et al., Nature, 383*:707 (1996)), *Cystatin C* in the Icelandic type of hereditary cerebral hemorrhage with amyloidosis (Palsdottir, A., *et al., Lancet, 2*:603-604 (1998)), *APP* in the Dutch type of hereditary cerebral hemorrhage (Levy, E., *et al., Science, 248*:1124 (1990)), and the *KRIT1* gene in patients with hereditary cavernous angioma (Gunel, M., *et al., Proc. Natl. Acad. Sci. U.S.A., 92*:6620-6624 (1995); Laberge-le Couteulx, S., *et al., Nat. Genet. 23*:189 (1999); Sahoo, T., *et al., Hum. Mol. Genet. 8*:2325 (1999)).

In addition to family history information for stroke, it is desirable to develop diagnostic methods for the early diagnosis of the disease or predisposition for the development of stroke. Better means for predicting and identifying stroke should lead to better prophylactic and treatment regimens.

SUMMARY OF THE INVENTION

As described herein, it has been discovered that the gene that encodes phosphodiesterase 4D (hereinafter referred to as "PDE4D") has been correlated through human linkage studies to stroke, particularly ischemic strokes and transient ischemic attacks. Five new exons, here referred to as 4D7-1, 4D7-2 , 4D7-3, 4D6 and 4D8 have been identified. Three novel splice variants have also been identified (see Fig. 4).

The present invention relates to isolated nucleic acid molecules comprising the PDE4D gene. In one embodiment, the isolated nucleic acid molecule comprises a nucleotide sequence selected from the group consisting of SEQ ID NO: 1 which may optionally comprise at least one polymorphism as shown in Tables 9 and 10, and the complement thereof. The invention further relates to a nucleic acid molecule which hybridizes under high stringency conditions to a nucleotide sequence selected from the group consisting of SEQ ID NO: 1 which may optionally comprise at least one polymorphism as shown in Tables 9 and 10, and the complement thereof. The invention additionally relates to isolated nucleic acid molecules (e.g., cDNA molecules) encoding a PDE4D polypeptide (e.g., encoding SEQ ID NO: 2, 3, 4, 5, 6, 7, 8, 9, 10, 12 or 14 or another splicing variant of PDE4D polypeptide which includes a polymorphic site and/or novel exon selected from the group consisting of 4D6, 4D7-1, 4D7-2, 4D7-3 and 4D8).

The invention further provides a method for assaying a sample for the presence of a nucleic acid molecule comprising all or a portion of PDE4D in a sample, comprising contacting said sample with a second nucleic acid molecule comprising a nucleotide sequence encoding a PDE4D polypeptide (e.g., SEQ ID NO: 1 or the complement of SEQ ID NO: 1 which may optionally comprise at least one polymorphism as shown in Tables 9 and 10; a nucleotide sequence encoding SEQ ID NO: 2, 3, 4, 5, 6, 7, 8, 9, 10, 12 or 14 which may optionally comprise at least one polymorphism as shown in Tables 9 and 10, or another splicing variant of PDE4D polypeptide which includes a polymorphic site and/or exon selected from the group consisting of 4D6, 4D7-1, 4D7-2, 4D7-3 and 4D8), or a fragment or derivative thereof, under conditions appropriate for selective hybridization. The

invention additionally provides a method for assaying a sample for the level of expression of a PDE4D polypeptide, or fragment or derivative thereof, comprising detecting (directly or indirectly) the level of expression of the PDE4D polypeptide, fragment or derivative thereof.

The invention also relates to a vector comprising an isolated nucleic acid molecule of the invention operatively linked to a regulatory sequence, as well as to a recombinant host cell comprising the vector. The invention also provides a method for preparing a polypeptide encoded by an isolated nucleic acid molecule described herein (an PDE4D polypeptide), comprising culturing a recombinant host cell of the invention under conditions suitable for expression of said nucleic acid molecule.

The invention further provides an isolated polypeptide encoded by isolated nucleic acid molecules of the invention (e.g., PDE4D polypeptide), as well as fragments or derivatives thereof. In a particular embodiment, the polypeptide comprises the amino acid sequence of SEQ ID NO: 2, SEQ ID NO: 3, SEQ ID NO: 4, SEQ ID NO: 5, SEQ ID NO: 6 , SEQ ID NO: 7, SEQ ID NO: 8, SEQ ID NO: 9, SEQ ID NO: 10, SEQ ID NO: 12 or SEQ ID NO. 14 and containing at least one polymorphism described herein, particularly a polymorphism in all or a portion of exon 4D1, such as a SNP at 1,591,306, or one or a combination of SNPs in Table 5B. In another embodiment, the polypeptide is another splicing variant of an PDE4D polypeptide, particularly a splicing variant containing all or a portion of exon selected from the group consisting of, 4D7-1, 4D7-2, 4D7-3 and 4D8. The invention also relates to an isolated polypeptide comprising an amino acid sequence which is greater than about 90 percent identical to the amino acid sequence of SEQ ID NO: 2, SEQ ID NO: 3, SEQ ID NO: 4, SEQ ID NO: 5, SEQ ID NO: 6, SEQ ID NO: 7, SEQ ID NO: 8, SEQ ID NO: 9, SEQ ID NO:10, SEQ ID NO: 12 or SEQ ID NO: 14 and containing at least one polymorphism described herein, particularly a polymorphism in all or a portion of exon 4D1, such as a SNP at 1,591,306, or one or a combination of SNPs in Table 5B; preferably about 95 percent identical.

The invention also relates to an antibody, or an antigen-binding fragment thereof, which selectively binds to a polypeptide of the invention, as well as to a method for assaying the presence of a polypeptide encoded by an isolated nucleic

acid molecule of the invention in a sample, comprising contacting said sample with an antibody which specifically binds to the encoded polypeptide.

The invention further relates to methods of diagnosing a predisposition to stroke. The methods of diagnosing a predisposition to stroke in an individual include detecting the presence of a mutation in PDE4D, as well as detecting alterations in expression of an PDE4D polypeptide, such as the presence of different splicing variants of PDE4D polypeptides. The alterations in expression can be quantitative, qualitative, or both quantitative and qualitative. The methods of the invention allow the accurate diagnosis of stroke at or before disease onset, thus reducing or minimizing the debilitating effects of stroke.

The invention additionally relates to an assay for identifying agents which alter (e.g., enhance or inhibit) the activity or expression of one or more PDE4D polypeptides. For example, a cell, cellular fraction, or solution containing an PDE4D polypeptide or a fragment or derivative thereof, can be contacted with an agent to be tested, and the level of PDE4D polypeptide expression or activity can be assessed. The activity or expression of more than one PDE4D polypeptides can be assessed concurrently (e.g., the cell, cellular fraction, or solution can contain more than one type of PDE4D polypeptide, such as different splicing variants, and the levels of the different polypeptides or splicing variants can be assessed).

In another embodiment, the invention relates to assays to identify polypeptides which interact with one or more PDE4D polypeptides. In a yeast two-hybrid system, for example, a first vector is used which includes a nucleic acid encoding a DNA binding domain and also an PDE4D polypeptide, splicing variant, or fragment or derivative thereof, and a second vector is used which includes a nucleic acid encoding a transcription activation domain and also a nucleic acid encoding a polypeptide which potentially may interact with the PDE4D polypeptide, splicing variant, or fragment or derivative thereof (e.g., a PDE4D polypeptide binding agent or receptor). Incubation of yeast containing both the first vector and the second vector under appropriate conditions allows identification of polypeptides which interact with the PDE4D polypeptide or fragment or derivative thereof, and thus can be agents which alter the activity of expression of an PDE4D polypeptide.

Agents that enhance or inhibit PDE4D polypeptide expression or activity are also included in the current invention, as are methods of altering (enhancing or inhibiting) PDE4D polypeptide expression or activity by contacting a cell containing PDE4D and/or polypeptide, or by contacting the PDE4D polypeptide, with an agent that enhances or inhibits expression or activity of PDE4D or polypeptide.

Additionally, the invention pertains to pharmaceutical compositions comprising the nucleic acids of the invention, the polypeptides of the invention, and/or the agents that alter activity of PDE4D polypeptide. The invention further pertains to methods of treating stroke, by administering PDE4D therapeutic agents, such as nucleic acids of the invention, polypeptides of the invention, the agents that alter activity of PDE4D polypeptide, or compositions comprising the nucleic acids, polypeptides, and/or the agents that alter activity of PDE4D polypeptide.

BRIEF DESCRIPTION OF THE DRAWINGS

The foregoing and other objects, features and advantages of the invention will be apparent from the following more particular description of preferred embodiments of the invention, as illustrated in the accompanying drawings.

Figs. 1A and 1B show two family pedigrees each affected by several of the stroke subtypes, including hemorrhagic stroke.

Figs. 2A, 2B and 2C show the genetic, combined and physical maps for locating the PDE4D gene using 30 polymorphic markers. For the combined map, all markers have been assigned in the genetic and physical map unless otherwise indicated. (* indicates markers only assigned in physical map; ** indicates markers only assigned in genetic map).

Fig. 3 shows the genetic map of the stroke locus with exons and polymorphic markers indicated. Markers identified by asterisks show association. The area defined by one drop in lod is approximately 4.6 Mb (approximately 5-6 cM).

Fig. 4 shows schematic representations of PDE4D splice variants. Splice variants 4D6, 4D7 and 4D8 are novel, as well as exons 4D6, 4D7-1, 4D7-2, 4D7-3 and 4D8. Splice variants 4DN1, 4DN2 and 4DN3 (Miro, *et al.*, *Biochem. Biophys.*

Res. Comm., *274*:415-421 (2000)), and 4D1, 4D2, 4D3, 4D4 and 4D5 (Bolger *et al.*, *Biochem. J.*, *Pt2*:539-548 (1997) are known.

Fig. 5 is a schematic representation of the genetic map showing microsatellites and SNP haplotypes within the stroke gene.

Figs. 6.1 to 6.351 show the genomic sequence of the human PDE4D gene.

Figs. 7.1 to 7:10 show the amino acid sequences for the isoforms of the PDE4D gene. SEQ ID NO: 2 is D4; SEQ ID NO: 3 is N2; SEQ ID NO: 4 is D5; SEQ ID NO: 5 is N3; SEQ ID NO: 6 is D3; SEQ ID NO: 7 is N1; SEQ ID NO: 8 is D6; SEQ ID NO: 9 is D1; and SEQ ID NO: 10 is D2.

Figs. 8A and 8B list all publically available PDE4D2 mRNA's and novel eDNA segments identified by deCODE genetics.

DETAILED DESCRIPTION OF THE INVENTION

Extensive genealogical information for a population with population-based lists of patients has been combined with powerful genome sharing methods to map the first major locus in common stroke. A genome wide scan on patients, related within 6 meiotic events, diagnosed with stroke (ischemic and TIA) and their unaffected relatives has been completed. Locus *STRK1* on chromosome 5q12 has been identified through linkage studies to be associated with stroke. This locus does not correspond to known susceptibility loci for stroke or its risk factors (such as diabetes, hyperlipidemia and hypertension), and represents the first mapping of a gene for common stroke. Until now there have been no known linkage studies of stroke in humans showing any connection to this region of the chromosome. Based on the linkage studies conducted, Applicants have discovered a direct relationship between the PDE4D gene and stroke. Although the PDE4D gene (i.e., cDNA but not the genomic sequence) from normal individuals is known, there have been no studies directly investigating PDE4D and stroke. Moreover, there have been no variant forms reported that have been associated with stroke. The full sequence of the PDE4D gene and splice variants are reported herein. Additional single nucleotide polymorphisms are reported in Tables 9 and 10 and may not be shown in SEQ ID NO: 1.

NUCLEIC ACIDS OF THE INVENTION

Accordingly, the invention pertains to an isolated nucleic acid molecule comprising the human PDE4D gene having at least one nucleotide alteration and correlated with incidence of stroke. The term, "PDE4D or variant PDE4D", as used herein, refers to an isolated nucleic acid molecule on chromosome 5q12 having at least one altered nucleotide that is associated with a susceptibility to a number of stroke phenotypes, and also to a portion or fragment of the isolated nucleic acid molecule (e.g., cDNA or the gene) that encodes PDE4D polypeptide (e.g., the polypeptide having SEQ ID NO: 2, 3, 4, 5, 6, 7, 8, 9, 10, 12 or 14, optionally comprising at least one SNP as set forth in Tables 9 and 10, or another splicing variant of a PDE4D polypeptide). In a preferred embodiment, the isolated nucleic acid molecule comprises SEQ ID NO:1 (shown in Appendix I) or the complement thereof. In another embodiment, the isolated nucleic acid molecule comprises the sequence of SEQ ID NO: 1 or the complement of SEQ ID NO: 1, except that one or more single nucleotide polymorphisms as shown in Tables 9 and 10 are also present. In another embodiment, the isolated nucleic acid molecules comprises exon 4D6, 4D7-1, 4D7-2, 4D7-3 and 4D8.

The isolated nucleic acid molecules of the present invention can be RNA, for example, mRNA, or DNA, such as cDNA and genomic DNA. DNA molecules can be double-stranded or single-stranded; single stranded RNA or DNA can be either the coding, or sense, strand or the non-coding, or antisense, strand. The nucleic acid molecule can include all or a portion of the coding sequence of the gene and can further comprise additional non-coding sequences such as introns and non-coding 3' and 5' sequences (including regulatory sequences, for example). Additionally, the nucleic acid molecule can be fused to a marker sequence, for example, a sequence that encodes a polypeptide to assist in isolation or purification of the polypeptide. Such sequences include, but are not limited to, those which encode a glutathione-S-transferase (GST) fusion protein and those which encode a hemagglutinin A (HA) polypeptide marker from influenza.

An "isolated" nucleic acid molecule, as used herein, is one that is separated from nucleic acids which normally flank the gene or nucleotide sequence (as in

genomic sequences) and/or has been completely or partially purified from other transcribed sequences (e.g., as in an RNA library). For example, an isolated nucleic acid of the invention may be substantially isolated with respect to the complex cellular milieu in which it naturally occurs, or culture medium when produced by recombinant techniques, or chemical precursors or other chemicals when chemically synthesized. In some instances, the isolated material will form part of a composition (for example, a crude extract containing other substances), buffer system or reagent mix. In other circumstances, the material may be purified to essential homogeneity, for example as determined by PAGE or column chromatography such as HPLC. Preferably, an isolated nucleic acid molecule comprises at least about 50, 80 or 90% (on a molar basis) of all macromolecular species present. With regard to genomic DNA, the term "isolated" also can refer to nucleic acid molecules which are separated from the chromosome with which the genomic DNA is naturally associated. For example, the isolated nucleic acid molecule can contain less than about 5 kb, 4 kb, 3 kb, 2 kb, 1 kb, 0.5 kb or 0.1 kb of nucleotides which flank the nucleic acid molecule in the genomic DNA of the cell from which the nucleic acid molecule is derived.

The nucleic acid molecule can be fused to other coding or regulatory sequences and still be considered isolated. Thus, recombinant DNA contained in a vector is included in the definition of "isolated" as used herein. Also, isolated nucleic acid molecules include recombinant DNA molecules in heterologous host cells, as well as partially or substantially purified DNA molecules in solution. "Isolated" nucleic acid molecules also encompass *in vivo* and *in vitro* RNA transcripts of the DNA molecules of the present invention. An isolated nucleic acid molecule or nucleotide sequence can include a nucleic acid molecule or nucleotide sequence which is synthesized chemically or by recombinant means. Therefore, recombinant DNA contained in a vector are included in the definition of "isolated" as used herein. Also, isolated nucleotide sequences include recombinant DNA molecules in heterologous organisms, as well as partially or substantially purified DNA molecules in solution. *In vivo* and *in vitro* RNA transcripts of the DNA molecules of the present invention are also encompassed by "isolated" nucleotide

sequences. Such isolated nucleotide sequences are useful in the manufacture of the encoded polypeptide, as probes for isolating homologous sequences (e.g., from other mammalian species), for gene mapping (e.g., by *in situ* hybridization with chromosomes), or for detecting expression of the gene in tissue (e.g., human tissue), such as by Northern blot analysis.

The present invention also pertains to variant nucleic acid molecules which are not necessarily found in nature but which encode a PDE4D polypeptide (e.g., a polypeptide having the amino acid sequence of SEQ ID NO: 2, 3, 4, 5, 6, 7, 8, 9, 10, 12 or 14, or another splicing variant of PDE4D polypeptide or polymorphic variant thereof. Thus, for example, DNA molecules which comprise a sequence that is different from the naturally-occurring nucleotide sequence but which, due to the degeneracy of the genetic code, encode a PDE4D polypeptide of the present invention are also the subject of this invention. The invention also encompasses nucleotide sequences encoding portions (fragments), or encoding variant polypeptides such as analogues or derivatives of the PDE4D polypeptide. Such variants can be naturally-occurring, such as in the case of allelic variation or single nucleotide polymorphisms, or non-naturally-occurring, such as those induced by various mutagens and mutagenic processes. Intended variations include, but are not limited to, addition, deletion and substitution of one or more nucleotides which can result in conservative or non-conservative amino acid changes, including additions and deletions. Preferably the nucleotide (and/or resultant amino acid) changes are silent or conserved; that is, they do not alter the characteristics or activity of the PDE4D polypeptide. In one preferred embodiment, the nucleotide sequences are fragments that comprise one or more polymorphic microsatellite markers. In another preferred embodiment, the nucleotide sequences are fragments that comprise one or more single nucleotide polymorphisms in the PDE4D gene.

Other alterations of the nucleic acid molecules of the invention can include, for example, labeling, methylation, internucleotide modifications such as uncharged linkages (e.g., methyl phosphonates, phosphotriesters, phosphoamidates, carbamates), charged linkages (e.g., phosphorothioates, phosphorodithioates), pendent moieties (e.g., polypeptides), intercalators (e.g., acridine, psoralen),

chelators, alkylators, and modified linkages (e.g., alpha anomeric nucleic acids). Also included are synthetic molecules that mimic nucleic acid molecules in the ability to bind to a designated sequences via hydrogen bonding and other chemical interactions. Such molecules include, for example, those in which peptide linkages substitute for phosphate linkages in the backbone of the molecule.

The invention also pertains to nucleic acid molecules which hybridize under high stringency hybridization conditions, such as for selective hybridization, to a nucleotide sequence described herein (e.g., nucleic acid molecules which specifically hybridize to a nucleotide sequence encoding polypeptides described herein, and, optionally, have an activity of the polypeptide). In one embodiment, the invention includes variants described herein which hybridize under high stringency hybridization conditions (e.g., for selective hybridization) to a nucleotide sequence comprising a nucleotide sequence selected from SEQ ID NO: 1 which may optionally comprise at least one polymorphism as shown in Tables 9 and 10 or the complement thereof. In another embodiment, the invention includes variants described herein which hybridize under high stringency hybridization conditions (e.g., for selective hybridization) to a nucleotide sequence encoding an amino acid sequence selected from SEQ ID NO: 2, 3, 4, 5, 6, 7, 8, 9, 10, 12 or 14 or polymorphic variant thereof. In a preferred embodiment, the variant which hybridizes under high stringency hybridizations has an activity of PDE4D.

Such nucleic acid molecules can be detected and/or isolated by specific hybridization (e.g., under high stringency conditions). "Specific hybridization," as used herein, refers to the ability of a first nucleic acid to hybridize to a second nucleic acid in a manner such that the first nucleic acid does not hybridize to any nucleic acid other than to the second nucleic acid (e.g., when the first nucleic acid has a higher similarity to the second nucleic acid than to any other nucleic acid in a sample wherein the hybridization is to be performed). "Stringency conditions" for hybridization is a term of art which refers to the incubation and wash conditions, e.g., conditions of temperature and buffer concentration, which permit hybridization of a particular nucleic acid to a second nucleic acid; the first nucleic acid may be perfectly (i.e., 100%) complementary to the second, or the first and second may

share some degree of complementarity which is less than perfect (e.g., 70%, 75%, 85%, 95%). For example, certain high stringency conditions can be used which distinguish perfectly complementary nucleic acids from those of less complementarity. "High stringency conditions", "moderate stringency conditions" and "low stringency conditions" for nucleic acid hybridizations are explained on pages 2.10.1-2.10.16 and pages 6.3.1-6.3.6 in *Current Protocols in Molecular Biology* (Ausubel, F.M. *et al.*, "*Current Protocols in Molecular Biology*", John Wiley & Sons, (1998), the entire teachings of which are incorporated by reference herein). The exact conditions which determine the stringency of hybridization depend not only on ionic strength (e.g., 0.2XSSC, 0.1XSSC), temperature (e.g., room temperature, 42°C, 68°C) and the concentration of destabilizing agents such as formamide or denaturing agents such as SDS, but also on factors such as the length of the nucleic acid sequence, base composition, percent mismatch between hybridizing sequences and the frequency of occurrence of subsets of that sequence within other non-identical sequences. Thus, equivalent conditions can be determined by varying one or more of these parameters while maintaining a similar degree of identity or similarity between the two nucleic acid molecules. Typically, conditions are used such that sequences at least about 60%, at least about 70%, at least about 80%, at least about 90% or at least about 95% or more identical to each other remain hybridized to one another. By varying hybridization conditions from a level of stringency at which no hybridization occurs to a level at which hybridization is first observed, conditions which will allow a given sequence to hybridize (e.g., selectively) with the most similar sequences in the sample can be determined.

Exemplary conditions are described in Krause, M.H. and S.A. Aaronson, *Methods in Enzymology, 200*:546-556 (1991). Also, in, Ausubel, *et al.*, "*Current Protocols in Molecular Biology*", John Wiley & Sons, (1998), which describes the determination of washing conditions for moderate or low stringency conditions. Washing is the step in which conditions are usually set so as to determine a minimum level of complementarity of the hybrids. Generally, starting from the lowest temperature at which only homologous hybridization occurs, each °C by

which the final wash temperature is reduced (holding SSC concentration constant) allows an increase by 1% in the maximum extent of mismatching among the sequences that hybridize. Generally, doubling the concentration of SSC results in an increase in T_m of ~17°C. Using these guidelines, the washing temperature can be determined empirically for high, moderate or low stringency, depending on the level of mismatch sought.

For example, a low stringency wash can comprise washing in a solution containing 0.2XSSC/0.1% SDS for 10 min at room temperature; a moderate stringency wash can comprise washing in a prewarmed solution (42°C) solution containing 0.2XSSC/0.1% SDS for 15 min at 42°C; and a high stringency wash can comprise washing in prewarmed (68°C) solution containing 0.1XSSC/0.1%SDS for 15 min at 68°C. Furthermore, washes can be performed repeatedly or sequentially to obtain a desired result as known in the art. Equivalent conditions can be determined by varying one or more of the parameters given as an example, as known in the art, while maintaining a similar degree of identity or similarity between the target nucleic acid molecule and the primer or probe used.

The percent identity of two nucleotide or amino acid sequences can be determined by aligning the sequences for optimal comparison purposes (*e.g.*, gaps can be introduced in the sequence of a first sequence). The nucleotides or amino acids at corresponding positions are then compared, and the percent identity between the two sequences is a function of the number of identical positions shared by the sequences (*i.e.*, % identity = # of identical positions/total # of positions x 100). In certain embodiments, the length of a sequence aligned for comparison purposes is at least 30%, preferably at least 40%, more preferably at least 60%, and even more preferably at least 70%, 80%, 90% or 95% of the length of the reference sequence. The actual comparison of the two sequences can be accomplished by well-known methods, for example, using a mathematical algorithm. A preferred, non-limiting example of such a mathematical algorithm is described in Karlin *et al.*, *Proc. Natl. Acad. Sci. USA, 90*:5873-5877 (1993). Such an algorithm is incorporated into the NBLAST and XBLAST programs (version 2.0) as described in Altschul *et al.*, *Nucleic Acids Res., 25*:389-3402 (1997). When utilizing BLAST and Gapped

BLAST programs, the default parameters of the respective programs (*e.g.*, NBLAST) can be used. See http://www.ncbi.nlm.nih.gov. In one embodiment, parameters for sequence comparison can be set at score=100, wordlength=12, or can be varied (*e.g.*, W=5 or W=20).

Another preferred, non-limiting example of a mathematical algorithm utilized for the comparison of sequences is the algorithm of Myers and Miller, CABIOS (1989). Such an algorithm is incorporated into the ALIGN program (version 2.0) which is part of the GCG sequence alignment software package. When utilizing the ALIGN program for comparing amino acid sequences, a PAM120 weight residue table, a gap length penalty of 12 , and a gap penalty of 4 can be used. Additional algorithms for sequence analysis are known in the art and include ADVANCE and ADAM as described in Torellis and Robotti (1994) *Comput. Appl. Biosci., 10*:3-5; and FASTA described in Pearson and Lipman (1988) *PNAS, 85*:2444-8.

In another embodiment, the percent identity between two amino acid sequences can be accomplished using the GAP program in the CGC software package (available at http://www.cgc.com) using either a Blossom 63 matrix or a PAM250 matrix, and a gap weight of 12, 10, 8, 6, or 4 and a length weight of 2, 3, or 4. In yet another embodiment, the percent identity between two nucleic acid sequences can be accomplished using the GAP program in the GCG software package (available at http://www.accelrys.com), using a gap weight of 50 and a length weight of 3.

The present invention also provides isolated nucleic acid molecules that contain a fragment or portion that hybridizes under highly stringent conditions to a nucleotide sequence comprising a nucleotide sequence selected from SEQ ID NO: 1 which may optionally comprise at least one polymorphism as shown in Tables 9 and 10 and the complement thereof, and also provides isolated nucleic acid molecules that contain a fragment or portion that hybridizes under highly stringent conditions to a nucleotide sequence encoding an amino acid sequence selected from SEQ ID NO: 2, 3, 4, 5, 6, 7, 8, 9, 10, 12 or 14, or polymorphic variant thereof. The nucleic acid fragments of the invention are at least about 15, preferably at least about 18, 20,

23 or 25 nucleotides, and can be 30, 40, 50, 100, 200 or more nucleotides in length. Longer fragments, for example, 30 or more nucleotides in length, which encode antigenic polypeptides described herein are particularly useful, such as for the generation of antibodies as described below.

In a related aspect, the nucleic acid fragments of the invention are used as probes or primers in assays such as those described herein. "Probes" or "primers" are oligonucleotides that hybridize in a base-specific manner to a complementary strand of nucleic acid molecules. Such probes and primers include polypeptide nucleic acids, as described in Nielsen *et al.*, *Science, 254*, 1497-1500 (1991).

Typically, a probe or primer comprises a region of nucleotide sequence that hybridizes to at least about 15, typically about 20-25, and more typically about 40, 50 or 75, consecutive nucleotides of a nucleic acid molecule comprising a contiguous nucleotide sequence selected from: SEQ ID NO: 1 which may optionally comprise at least one polymorphism as shown in Tables 9 and 10, the complement thereof, or a sequence encoding an amino acid sequence selected from SEQ ID NO: 2, 3, 4, 5, 6, 7, 8, 9, 10, 12 or 14, or polymorphic variant thereof. In preferred embodiments, a probe or primer comprises 100 or fewer nucleotides, preferably from 6 to 50 nucleotides, preferably from 12 to 30 nucleotides. In other embodiments, the probe or primer is at least 70% identical to the contiguous nucleotide sequence or to the complement of the contiguous nucleotide sequence, preferably at least 80% identical, more preferably at least 90% identical, even more preferably at least 95% identical, or even capable of selectively hybridizing to the contiguous nucleotide sequence or to the complement of the contiguous nucleotide sequence. Often, the probe or primer further comprises a label, *e.g.*, radioisotope, fluorescent compound, enzyme, or enzyme co-factor.

The nucleic acid molecules of the invention such as those described above can be identified and isolated using standard molecular biology techniques and the sequence information provided herein. For example, nucleic acid molecules can be amplified and isolated by the polymerase chain reaction using synthetic oligonucleotide primers designed based on one or more of the sequences provided in SEQ ID NO: 1 which may optionally comprise at least one polymorphism shown in

Tables 9 and 10, and/or the complement thereof, or designed based on nucleotides based on sequences encoding one or more of the amino acid sequences provided herein. See generally *PCR Technology: Principles and Applications for DNA Amplification* (ed. H.A. Erlich, Freeman Press, NY, NY, 1992); *PCR Protocols: A Guide to Methods and Applications* (Eds. Innis, *et al.*, Academic Press, San Diego, CA, 1990); Mattila *et al.*, *Nucleic Acids Res., 19*:4967 (1991); Eckert *et al.*, *PCR Methods and Applications, 1*:17 (1991); PCR (eds. McPherson *et al.*, IRL Press, Oxford); and U.S. Patent 4,683,202. The nucleic acid molecules can be amplified using cDNA, mRNA or genomic DNA as a template, cloned into an appropriate vector and characterized by DNA sequence analysis.

Other suitable amplification methods include the ligase chain reaction (LCR) (see Wu and Wallace, *Genomics, 4*:560 (1989), Landegren *et al.*, *Science, 241*:1077 (1988), transcription amplification (Kwoh *et al.*, *Proc. Natl. Acad. Sci. USA, 86*:1173 (1989)), and self-sustained sequence replication (Guatelli *et al.*, *Proc. Nat. Acad. Sci. USA, 87*:1874 (1990)) and nucleic acid based sequence amplification (NASBA). The latter two amplification methods involve isothermal reactions based on isothermal transcription, which produce both single stranded RNA (ssRNA) and double stranded DNA (dsDNA) as the amplification products in a ratio of about 30 or 100 to 1, respectively.

The amplified DNA can be radiolabelled and used as a probe for screening a cDNA library derived from human cells, mRNA in zap express, ZIPLOX or other suitable vector. Corresponding clones can be isolated, DNA can obtained following *in vivo* excision, and the cloned insert can be sequenced in either or both orientations by art recognized methods to identify the correct reading frame encoding a polypeptide of the appropriate molecular weight. For example, the direct analysis of the nucleotide sequence of nucleic acid molecules of the present invention can be accomplished using well-known methods that are commercially available. See, for example, Sambrook *et al.*, *Molecular Cloning, A Laboratory Manual* (2nd Ed., CSHP, New York 1989); Zyskind *et al.*, *Recombinant DNA Laboratory Manual*, (Acad. Press, 1988)). Using these or similar methods, the polypeptide and the DNA encoding the polypeptide can be isolated, sequenced and further characterized.

Antisense nucleic acid molecules of the invention can be designed using the nucleotide sequences of SEQ ID NO: 1 and/or the complement of SEQ ID NO: 1, and/or a portion of SEQ ID NO:1 or the complement of SEQ ID NO:1 and/or a sequence encoding the amino acid sequences or SEQ ID NO: 2, 3, 4, 5, 6, 7, 8, 9, 10, 12 and/or 14, or encoding a portion of SEQ ID NO: 2, 3, 4, 5, 6, 7, 8, 9, 10, 12 and/or 14, (wherein any one of these may optionally comprise at least one polymorphism as shown in Tables 9 and 10) and constructed using chemical synthesis and enzymatic ligation reactions using procedures known in the art. For example, an antisense nucleic acid molecule (*e.g.*, an antisense oligonucleotide) can be chemically synthesized using naturally occurring nucleotides or variously modified nucleotides designed to increase the biological stability of the molecules or to increase the physical stability of the duplex formed between the antisense and sense nucleic acids, *e.g.*, phosphorothioate derivatives and acridine substituted nucleotides can be used. Alternatively, the antisense nucleic acid molecule can be produced biologically using an expression vector into which a nucleic acid molecule has been subcloned in an antisense orientation (*i.e.*, RNA transcribed from the inserted nucleic acid molecule will be of an antisense orientation to a target nucleic acid of interest).

In general, the isolated nucleic acid sequences of the invention can be used as molecular weight markers on Southern gels, and as chromosome markers which are labeled to map related gene positions. The nucleic acid sequences can also be used to compare with endogenous DNA sequences in patients to identify genetic disorders (e.g., a predisposition for or susceptibility to stroke), and as probes, such as to hybridize and discover related DNA sequences or to subtract out known sequences from a sample. The nucleic acid sequences can further be used to derive primers for genetic fingerprinting, to raise anti-polypeptide antibodies using DNA immunization techniques, and as an antigen to raise anti-DNA antibodies or elicit immune responses. Portions or fragments of the nucleotide sequences identified herein (and the corresponding complete gene sequences) can be used in numerous ways as polynucleotide reagents. For example, these sequences can be used to: (i) map their respective genes on a chromosome; and, thus, locate gene regions

associated with genetic disease; (ii) identify an individual from a minute biological sample (tissue typing); and (iii) aid in forensic identification of a biological sample. Additionally, the nucleotide sequences of the invention can be used to identify and express recombinant polypeptides for analysis, characterization or therapeutic use, or as markers for tissues in which the corresponding polypeptide is expressed, either constitutively, during tissue differentiation, or in diseased states. The nucleic acid sequences can additionally be used as reagents in the screening and/or diagnostic assays described herein, and can also be included as components of kits (e.g., reagent kits) for use in the screening and/or diagnostic assays described herein.

Another aspect of the invention pertains to nucleic acid constructs containing a nucleic acid molecule selected from the group consisting of SEQ ID NO: 1 which may optionally comprise at least one polymorphism shown in Tables 9 and 10 and the complement thereof (or a portion thereof). Yet another aspect of the invention pertains to nucleic acid constructs containing a nucleic acid molecule encoding the amino acid sequence of SEQ ID NO: 2, 3, 4, 5, 6, 7, 8, 9, 10, 12 or 14 or polymorphic variant thereof. The constructs comprise a vector (e.g., an expression vector) into which a sequence of the invention has been inserted in a sense or antisense orientation. As used herein, the term "vector" refers to a nucleic acid molecule capable of transporting another nucleic acid to which it has been linked. One type of vector is a "plasmid", which refers to a circular double stranded DNA loop into which additional DNA segments can be ligated. Another type of vector is a viral vector, wherein additional DNA segments can be ligated into the viral genome. Certain vectors are capable of autonomous replication in a host cell into which they are introduced (*e.g.*, bacterial vectors having a bacterial origin of replication and episomal mammalian vectors). Other vectors (*e.g.*, non-episomal mammalian vectors) are integrated into the genome of a host cell upon introduction into the host cell, and thereby are replicated along with the host genome. Moreover, certain vectors, expression vectors, are capable of directing the expression of genes to which they are operably linked. In general, expression vectors of utility in recombinant DNA techniques are often in the form of plasmids. However, the invention is intended to include such other forms of expression vectors, such as viral

vectors (*e.g.*, replication defective retroviruses, adenoviruses and adeno-associated viruses) that serve equivalent functions.

Preferred recombinant expression vectors of the invention comprise a nucleic acid molecule of the invention in a form suitable for expression of the nucleic acid molecule in a host cell. This means that the recombinant expression vectors include one or more regulatory sequences, selected on the basis of the host cells to be used for expression, which is operably linked to the nucleic acid sequence to be expressed. Within a recombinant expression vector, "operably or operatively linked" is intended to mean that the nucleotide sequence of interest is linked to the regulatory sequence(s) in a manner which allows for expression of the nucleotide sequence (*e.g.*, in an *in vitro* transcription/translation system or in a host cell when the vector is introduced into the host cell). The term "regulatory sequence" is intended to include promoters, enhancers and other expression control elements (*e.g.*, polyadenylation signals). Such regulatory sequences are described, for example, in Goeddel, *Gene Expression Technology: Methods in Enzymology 185*, Academic Press, San Diego, CA (1990). Regulatory sequences include those which direct constitutive expression of a nucleotide sequence in many types of host cell and those which direct expression of the nucleotide sequence only in certain host cells (*e.g.*, tissue-specific regulatory sequences). It will be appreciated by those skilled in the art that the design of the expression vector can depend on such factors as the choice of the host cell to be transformed and the level of expression of polypeptide desired. The expression vectors of the invention can be introduced into host cells to thereby produce polypeptides, including fusion polypeptides, encoded by nucleic acid molecules as described herein.

The recombinant expression vectors of the invention can be designed for expression of a polypeptide of the invention in prokaryotic or eukaryotic cells, *e.g.*, bacterial cells such as *E. coli*, insect cells (using baculovirus expression vectors), yeast cells or mammalian cells. Suitable host cells are discussed further in Goeddel, *supra*. Alternatively, the recombinant expression vector can be transcribed and translated *in vitro*, for example using T7 promoter regulatory sequences and T7 polymerase.

Another aspect of the invention pertains to host cells into which a recombinant expression vector of the invention has been introduced. The terms "host cell" and "recombinant host cell" are used interchangeably herein. It is understood that such terms refer not only to the particular subject cell but also to the progeny or potential progeny of such a cell. Because certain modifications may occur in succeeding generations due to either mutation or environmental influences, such progeny may not, in fact, be identical to the parent cell, but are still included within the scope of the term as used herein.

A host cell can be any prokaryotic or eukaryotic cell. For example, a nucleic acid molecule of the invention can be expressed in bacterial cells (*e.g.*, *E. coli*), insect cells, yeast or mammalian cells (such as Chinese hamster ovary cells (CHO) or COS cells). Other suitable host cells are known to those skilled in the art.

Vector DNA can be introduced into prokaryotic or eukaryotic cells via conventional transformation or transfection techniques. As used herein, the terms "transformation" and "transfection" are intended to refer to a variety of art-recognized techniques for introducing a foreign nucleic acid molecule (*e.g.*, DNA) into a host cell, including calcium phosphate or calcium chloride co-precipitation, DEAE-dextran-mediated transfection, lipofection, or electroporation. Suitable methods for transforming or transfecting host cells can be found in Sambrook, *et al.* (*supra*), and other laboratory manuals.

For stable transfection of mammalian cells, it is known that, depending upon the expression vector and transfection technique used, only a small fraction of cells may integrate the foreign DNA into their genome. In order to identify and select these integrants, a gene that encodes a selectable marker (*e.g.*, for resistance to antibiotics) is generally introduced into the host cells along with the gene of interest. Preferred selectable markers include those that confer resistance to drugs, such as G418, hygromycin and methotrexate. Nucleic acid molecules encoding a selectable marker can be introduced into a host cell on the same vector as the nucleic acid molecule of the invention or can be introduced on a separate vector. Cells stably transfected with the introduced nucleic acid molecule can be identified by drug

selection (*e.g.*, cells that have incorporated the selectable marker gene will survive, while the other cells die).

A host cell of the invention, such as a prokaryotic or eukaryotic host cell in culture, can be used to produce (*i.e.*, express) a polypeptide of the invention. Accordingly, the invention further provides methods for producing a polypeptide using the host cells of the invention. In one embodiment, the method comprises culturing the host cell of invention (into which a recombinant expression vector encoding a polypeptide of the invention has been introduced) in a suitable medium such that the polypeptide is produced. In another embodiment, the method further comprises isolating the polypeptide from the medium or the host cell.

The host cells of the invention can also be used to produce nonhuman transgenic animals. For example, in one embodiment, a host cell of the invention is a fertilized oocyte or an embryonic stem cell into which a nucleic acid molecule of the invention has been introduced (e.g., an exogenous PDE4D gene, or an exogenous nucleic acid encoding PDE4D polypeptide). Such host cells can then be used to create non-human transgenic animals in which exogenous nucleotide sequences have been introduced into the genome or homologous recombinant animals in which endogenous nucleotide sequences have been altered. Such animals are useful for studying the function and/or activity of the nucleotide sequence and polypeptide encoded by the sequence and for identifying and/or evaluating modulators of their activity. As used herein, a "transgenic animal" is a non-human animal, preferably a mammal, more preferably a rodent such as a rat or mouse, in which one or more of the cells of the animal includes a transgene. Other examples of transgenic animals include non-human primates, sheep, dogs, cows, goats, chickens and amphibians. A transgene is exogenous DNA which is integrated into the genome of a cell from which a transgenic animal develops and which remains in the genome of the mature animal, thereby directing the expression of an encoded gene product in one or more cell types or tissues of the transgenic animal. As used herein, an "homologous recombinant animal" is a non-human animal, preferably a mammal, more preferably a mouse, in which an endogenous gene has been altered by homologous recombination between the endogenous gene and an exogenous DNA molecule

introduced into a cell of the animal, *e.g.*, an embryonic cell of the animal, prior to development of the animal.

Methods for generating transgenic animals via embryo manipulation and microinjection, particularly animals such as mice, have become conventional in the art and are described, for example, in U.S. Patent Nos. 4,736,866 and 4,870,009, U.S. Patent No. 4,873,191 and in Hogan, *Manipulating the Mouse Embryo* (Cold Spring Harbor Laboratory Press, Cold Spring Harbor, N.Y., 1986). Methods for constructing homologous recombination vectors and homologous recombinant animals are described further in Bradley (1991) *Current Opinion in Bio/Technology, 2*:823-829 and in PCT Publication Nos. WO 90/11354, WO 91/01140, WO 92/0968, and WO 93/04169. Clones of the non-human transgenic animals described herein can also be produced according to the methods described in Wilmut *et al.* (1997) *Nature, 385*:810-813 and PCT Publication Nos. WO 97/07668 and WO 97/07669.

POLYPEPTIDES OF THE INVENTION

The present invention also pertains to isolated polypeptides encoded by PDE4D ("PDE4D polypeptides") and fragments and variants thereof, as well as polypeptides encoded by nucleotide sequences described herein (e.g., other splicing variants). The term "polypeptide" refers to a polymer of amino acids, and not to a specific length; thus, peptides, oligopeptides and proteins are included within the definition of a polypeptide. As used herein, a polypeptide is said to be "isolated" or "purified" when it is substantially free of cellular material when it is isolated from recombinant and non-recombinant cells, or free of chemical precursors or other chemicals when it is chemically synthesized. A polypeptide, however, can be joined to another polypeptide with which it is not normally associated in a cell (e.g., in a "fusion protein") and still be "isolated" or "purified."

The polypeptides of the invention can be purified to homogeneity. It is understood, however, that preparations in which the polypeptide is not purified to homogeneity are useful. The critical feature is that the preparation allows for the desired function of the polypeptide, even in the presence of considerable amounts of other components. Thus, the invention encompasses various degrees of purity. In

one embodiment, the language "substantially free of cellular material" includes preparations of the polypeptide having less than about 30% (by dry weight) other proteins (*i.e.*, contaminating protein), less than about 20% other proteins, less than about 10% other proteins, or less than about 5% other proteins.

When a polypeptide is recombinantly produced, it can also be substantially free of culture medium, *i.e.*, culture medium represents less than about 20%, less than about 10%, or less than about 5% of the volume of the polypeptide preparation. The language "substantially free of chemical precursors or other chemicals" includes preparations of the polypeptide in which it is separated from chemical precursors or other chemicals that are involved in its synthesis. In one embodiment, the language "substantially free of chemical precursors or other chemicals" includes preparations of the polypeptide having less than about 30% (by dry weight) chemical precursors or other chemicals, less than about 20% chemical precursors or other chemicals, less than about 10% chemical precursors or other chemicals, or less than about 5% chemical precursors or other chemicals.

In one embodiment, a polypeptide of the invention comprises an amino acid sequence encoded by a nucleic acid molecule comprising a nucleotide sequence selected from the group consisting of SEQ ID NO: 1 which may optionally comprise at least one polymorphism shown in Tables 9 and 10 and complements and portions thereof, e.g., SEQ ID NO: 2, 3, 4, 5, 6, 7, 8, 9, 10, 12 or 14, or a portion or polymorphic variant thereof. However, the polypeptides of the invention also encompass fragment and sequence variants. Variants include a substantially homologous polypeptide encoded by the same genetic locus in an organism, *i.e.*, an allelic variant, as well as other splicing variants. Variants also encompass polypeptides derived from other genetic loci in an organism, but having substantial homology to a polypeptide encoded by a nucleic acid molecule comprising a nucleotide sequence selected from the group consisting of SEQ ID NO: 1 which may optionally comprise at least one polymorphism shown in Tables 9 and 10 and complements and portions thereof, or having substantial homology to a polypeptide encoded by a nucleic acid molecule comprising a nucleotide sequence selected from the group consisting of nucleotide sequences encoding SEQ ID NO: 2, 3, 4, 5, 6, 7,

8, 9, 10, 12 or 14, or polymorphic variants thereof. Variants also include polypeptides substantially homologous or identical to these polypeptides but derived from another organism, *i.e.*, an ortholog. Variants also include polypeptides that are substantially homologous or identical to these polypeptides that are produced by chemical synthesis. Variants also include polypeptides that are substantially homologous or identical to these polypeptides that are produced by recombinant methods.

As used herein, two polypeptides (or a region of the polypeptides) are substantially homologous or identical when the amino acid sequences are at least about 45-55%, typically at least about 70-75%, more typically at least about 80-85%, and most typically greater than about 90% or more homologous or identical. A substantially homologous amino acid sequence, according to the present invention, will be encoded by a nucleic acid molecule hybridizing to SEQ ID NO: 1 which may optionally comprise at least one polymorphism shown in Tables 9 and 10, or portion thereof, under stringent conditions as more particularly described above, or will be encoded by a nucleic acid molecule hybridizing to a nucleic acid sequence encoding SEQ ID NO: 2, 3, 4, 5, 6, 7, 8, 9, 10, 12 or 14, portion thereof or polymorphic variant thereof, under stringent conditions as more particularly described thereof.

To determine the percent homology or identity of two amino acid sequences, or of two nucleic acid sequences, the sequences are aligned for optimal comparison purposes (*e.g.*, gaps can be introduced in the sequence of one polypeptide or nucleic acid molecule for optimal alignment with the other polypeptide or nucleic acid molecule). The amino acid residues or nucleotides at corresponding amino acid positions or nucleotide positions are then compared. When a position in one sequence is occupied by the same amino acid residue or nucleotide as the corresponding position in the other sequence, then the molecules are homologous at that position. As used herein, amino acid or nucleic acid "homology" is equivalent to amino acid or nucleic acid "identity". The percent homology between the two sequences is a function of the number of identical positions shared by the sequences (*i.e.*, percent homology equals the number of identical positions/total number of positions times 100).

The invention also encompasses polypeptides having a lower degree of identity but having sufficient similarity so as to perform one or more of the same functions performed by a polypeptide encoded by a nucleic acid molecule of the invention. Similarity is determined by conserved amino acid substitution. Such substitutions are those that substitute a given amino acid in a polypeptide by another amino acid of like characteristics. Conservative substitutions are likely to be phenotypically silent. Typically seen as conservative substitutions are the replacements, one for another, among the aliphatic amino acids Ala, Val, Leu and Ile; interchange of the hydroxyl residues Ser and Thr, exchange of the acidic residues Asp and Glu, substitution between the amide residues Asn and Gln, exchange of the basic residues Lys and Arg and replacements among the aromatic residues Phe and Tyr. Guidance concerning which amino acid changes are likely to be phenotypically silent are found in Bowie *et al.*, *Science 247*:1306-1310 (1990).

A variant polypeptide can differ in amino acid sequence by one or more substitutions, deletions, insertions, inversions, fusions, and truncations or a combination of any of these. Further, variant polypeptides can be fully functional or can lack function in one or more activities. Fully functional variants typically contain only conservative variation or variation in non-critical residues or in non-critical regions. Functional variants can also contain substitution of similar amino acids that result in no change or an insignificant change in function. Alternatively, such substitutions may positively or negatively affect function to some degree. Non-functional variants typically contain one or more non-conservative amino acid substitutions, deletions, insertions, inversions, or truncation or a substitution, insertion, inversion, or deletion in a critical residue or critical region.

Amino acids that are essential for function can be identified by methods known in the art, such as site-directed mutagenesis or alanine-scanning mutagenesis (Cunningham *et al.*, *Science, 244*:1081-1085 (1989)). The latter procedure introduces single alanine mutations at every residue in the molecule. The resulting mutant molecules are then tested for biological activity *in vitro*, or *in vitro* proliferative activity. Sites that are critical for polypeptide activity can also be determined by structural analysis such as crystallization, nuclear magnetic resonance

or photoaffinity labeling (Smith *et al.*, *J. Mol. Biol.*, *224*:899-904 (1992); de Vos *et al.*, *Science*, *255*:306-312 (1992)).

The invention also includes polypeptide fragments of the polypeptides of the invention. Fragments can be derived from a polypeptide encoded by a nucleic acid molecule comprising SEQ ID NO: 1 which may optionally comprise at least one polymorphism shown in Tables 9 and 10 or a portion thereof and the complements thereof (e.g., SEQ ID NO: 2, 3, 4, 5, 6, 7, 8, 9, 10, 12 or 14, or other splicing variants). However, the invention also encompasses fragments of the variants of the polypeptides described herein. As used herein, a fragment comprises at least 6 contiguous amino acids. Useful fragments include those that retain one or more of the biological activities of the polypeptide as well as fragments that can be used as an immunogen to generate polypeptide-specific antibodies.

Biologically active fragments (peptides which are, for example, 6, 9, 12, 15, 16, 20, 30, 35, 36, 37, 38, 39, 40, 50, 100 or more amino acids in length) can comprise a domain, segment, or motif that has been identified by analysis of the polypeptide sequence using well-known methods, *e.g.*, signal peptides, extracellular domains, one or more transmembrane segments or loops, ligand binding regions, zinc finger domains, DNA binding domains, acylation sites, glycosylation sites, or phosphorylation sites.

Fragments can be discrete (not fused to other amino acids or polypeptides) or can be within a larger polypeptide. Further, several fragments can be comprised within a single larger polypeptide. In one embodiment a fragment designed for expression in a host can have heterologous pre- and pro-polypeptide regions fused to the amino terminus of the polypeptide fragment and an additional region fused to the carboxyl terminus of the fragment.

The invention thus provides chimeric or fusion polypeptides. These comprise a polypeptide of the invention operatively linked to a heterologous protein or polypeptide having an amino acid sequence not substantially homologous to the polypeptide. "Operatively linked" indicates that the polypeptide and the heterologous protein are fused in-frame. The heterologous protein can be fused to the N-terminus or C-terminus of the polypeptide. In one embodiment the fusion

polypeptide does not affect function of the polypeptide *per se*. For example, the fusion polypeptide can be a GST-fusion polypeptide in which the polypeptide sequences are fused to the C-terminus of the GST sequences. Other types of fusion polypeptides include, but are not limited to, enzymatic fusion polypeptides, for example β-galactosidase fusions, yeast two-hybrid GAL fusions, poly-His fusions and Ig fusions. Such fusion polypeptides, particularly poly-His fusions, can facilitate the purification of recombinant polypeptide. In certain host cells (*e.g.*, mammalian host cells), expression and/or secretion of a polypeptide can be increased by using a heterologous signal sequence. Therefore, in another embodiment, the fusion polypeptide contains a heterologous signal sequence at its N-terminus.

EP-A-O 464 533 discloses fusion proteins comprising various portions of immunoglobulin constant regions. The Fc is useful in therapy and diagnosis and thus results, for example, in improved pharmacokinetic properties (EP-A 0232 262). In drug discovery, for example, human proteins have been fused with Fc portions for the purpose of high-throughput screening assays to identify antagonists. Bennett *et al.*, *Journal of Molecular Recognition, 8*:52-58 (1995) and Johanson *et al.*, *The Journal of Biological Chemistry, 270*,16:9459-9471 (1995). Thus, this invention also encompasses soluble fusion polypeptides containing a polypeptide of the invention and various portions of the constant regions of heavy or light chains of immunoglobulins of various subclass (IgG, IgM, IgA, IgE).

A chimeric or fusion polypeptide can be produced by standard recombinant DNA techniques. For example, DNA fragments coding for the different polypeptide sequences are ligated together in-frame in accordance with conventional techniques. In another embodiment, the fusion gene can be synthesized by conventional techniques including automated DNA synthesizers. Alternatively, PCR amplification of nucleic acid fragments can be carried out using anchor primers which give rise to complementary overhangs between two consecutive nucleic acid fragments which can subsequently be annealed and re-amplified to generate a chimeric nucleic acid sequence (see Ausubel *et al.*, *Current Protocols in Molecular Biology*, 1992). Moreover, many expression vectors are commercially available that already encode a

fusion moiety (*e.g.*, a GST protein). A nucleic acid molecule encoding a polypeptide of the invention can be cloned into such an expression vector such that the fusion moiety is linked in-frame to the polypeptide.

The isolated polypeptide can be purified from cells that naturally express it, purified from cells that have been altered to express it (recombinant), or synthesized using known protein synthesis methods. In one embodiment, the polypeptide is produced by recombinant DNA techniques. For example, a nucleic acid molecule encoding the polypeptide is cloned into an expression vector, the expression vector introduced into a host cell and the polypeptide expressed in the host cell. The polypeptide can then be isolated from the cells by an appropriate purification scheme using standard protein purification techniques.

In general, polypeptides of the present invention can be used as a molecular weight marker on SDS-PAGE gels or on molecular sieve gel filtration columns using art-recognized methods. The polypeptides of the present invention can be used to raise antibodies or to elicit an immune response. The polypeptides can also be used as a reagent, *e.g.*, a labeled reagent, in assays to quantitatively determine levels of the polypeptide or a molecule to which it binds (*e.g.*, a receptor or a ligand) in biological fluids. The polypeptides can also be used as markers for cells or tissues in which the corresponding polypeptide is preferentially expressed, either constitutively, during tissue differentiation, or in a diseased state. The polypeptides can be used to isolate a corresponding binding agent, *e.g.*, receptor or ligand, such as, for example, in an interaction trap assay, and to screen for peptide or small molecule antagonists or agonists of the binding interaction.

ANTIBODIES OF THE INVENTION

Polyclonal and/or monoclonal antibodies that specifically bind one form of the gene product but not to the other form of the gene product are also provided. Antibodies are also provided that bind a portion of either the variant or the reference gene product that contains the polymorphic site or sites. The invention provides antibodies to the polypeptides and polypeptide fragments of the invention, *e.g.*, having an amino acid sequence encoded by SEQ ID NO: 2, 3, 4, 5, 6, 7, 8, 9, 10, 12

or 14, or a portion thereof, or having an amino acid sequence encoded by a nucleic acid molecule comprising all or a portion of SEQ ID NO: 1 which may optionally comprise at least one polymorphism shown in Tables 9 and 10 (e.g., SEQ ID NO: 2, 3, 4, 5, 6, 7, 8, 9, 10, 12 or 14, or another splicing variant or portion thereof). The term "antibody" as used herein refers to immunoglobulin molecules and immunologically active portions of immunoglobulin molecules, *i.e.*, molecules that contain an antigen binding site that specifically binds an antigen. A molecule that specifically binds to a polypeptide of the invention is a molecule that binds to that polypeptide or a fragment thereof, but does not substantially bind other molecules in a sample, *e.g.*, a biological sample, which naturally contains the polypeptide. Examples of immunologically active portions of immunoglobulin molecules include F(ab) and $F(ab')_2$ fragments which can be generated by treating the antibody with an enzyme such as pepsin. The invention provides polyclonal and monoclonal antibodies that bind to a polypeptide of the invention. The term "monoclonal antibody" or "monoclonal antibody composition", as used herein, refers to a population of antibody molecules that contain only one species of an antigen binding site capable of immunoreacting with a particular epitope of a polypeptide of the invention. A monoclonal antibody composition thus typically displays a single binding affinity for a particular polypeptide of the invention with which it immunoreacts.

Polyclonal antibodies can be prepared as described above by immunizing a suitable subject with a desired immunogen, *e.g.*, polypeptide of the invention or fragment thereof. The antibody titer in the immunized subject can be monitored over time by standard techniques, such as with an enzyme linked immunosorbent assay (ELISA) using immobilized polypeptide. If desired, the antibody molecules directed against the polypeptide can be isolated from the mammal (*e.g.*, from the blood) and further purified by well-known techniques, such as protein A chromatography to obtain the IgG fraction. At an appropriate time after immunization, *e.g.*, when the antibody titers are highest, antibody-producing cells can be obtained from the subject and used to prepare monoclonal antibodies by standard techniques, such as the hybridoma technique originally described by Kohler

and Milstein (1975) *Nature, 256*:495-497, the human B cell hybridoma technique (Kozbor *et al.* (1983) *Immunol. Today, 4*:72), the EBV-hybridoma technique (Cole *et al.* (1985), *Monoclonal Antibodies and Cancer Therapy*, Alan R. Liss, Inc., pp. 77-96) or trioma techniques. The technology for producing hybridomas is well known (see generally *Current Protocols in Immunology* (1994) Coligan *et al.* (eds.) John Wiley & Sons, Inc., New York, NY). Briefly, an immortal cell line (typically a myeloma) is fused to lymphocytes (typically splenocytes) from a mammal immunized with an immunogen as described above, and the culture supernatants of the resulting hybridoma cells are screened to identify a hybridoma producing a monoclonal antibody that binds a polypeptide of the invention.

Any of the many well known protocols used for fusing lymphocytes and immortalized cell lines can be applied for the purpose of generating a monoclonal antibody to a polypeptide of the invention (see, *e.g.*, *Current Protocols in Immunology, supra*; Galfre *et al.* (1977) *Nature, 266*:55052; R.H. Kenneth, in *Monoclonal Antibodies: A New Dimension In Biological Analyses*, Plenum Publishing Corp., New York, New York (1980); and Lerner (1981) *Yale J. Biol. Med., 54*:387-402. Moreover, the ordinarily skilled worker will appreciate that there are many variations of such methods that also would be useful.

Alternative to preparing monoclonal antibody-secreting hybridomas, a monoclonal antibody to a polypeptide of the invention can be identified and isolated by screening a recombinant combinatorial immunoglobulin library (*e.g.*, an antibody phage display library) with the polypeptide to thereby isolate immunoglobulin library members that bind the polypeptide. Kits for generating and screening phage display libraries are commercially available (*e.g.*, the Pharmacia *Recombinant Phage Antibody System*, Catalog No. 27-9400-01; and the Stratagene *Surf*ZAP™ Phage Display Kit, Catalog No. 240612). Additionally, examples of methods and reagents particularly amenable for use in generating and screening antibody display library can be found in, for example, U.S. Patent No. 5,223,409; PCT Publication No. WO 92/18619; PCT Publication No. WO 91/17271; PCT Publication No. WO 92/20791; PCT Publication No. WO 92/15679; PCT Publication No. WO 93/01288; PCT Publication No. WO 92/01047; PCT Publication No. WO 92/09690; PCT

Publication No. WO 90/02809; Fuchs *et al.* (1991) *Bio/Technology, 9*:1370-1372; Hay *et al.* (1992) *Hum. Antibod. Hybridomas, 3*:81-85; Huse *et al.* (1989) *Science, 246*:1275-1281; Griffiths *et al.* (1993) *EMBO J., 12*:725-734.

Additionally, recombinant antibodies, such as chimeric and humanized monoclonal antibodies, comprising both human and non-human portions, which can be made using standard recombinant DNA techniques, are within the scope of the invention. Such chimeric and humanized monoclonal antibodies can be produced by recombinant DNA techniques known in the art.

In general, antibodies of the invention (*e.g.*, a monoclonal antibody) can be used to isolate a polypeptide of the invention by standard techniques, such as affinity chromatography or immunoprecipitation. A polypeptide-specific antibody can facilitate the purification of natural polypeptide from cells and of recombinantly produced polypeptide expressed in host cells. Moreover, an antibody specific for a polypeptide of the invention can be used to detect the polypeptide (*e.g.*, in a cellular lysate, cell supernatant, or tissue sample) in order to evaluate the abundance and pattern of expression of the polypeptide. Antibodies can be used diagnostically to monitor protein levels in tissue as part of a clinical testing procedure, *e.g.*, to, for example, determine the efficacy of a given treatment regimen. Detection can be facilitated by coupling the antibody to a detectable substance. Examples of detectable substances include various enzymes, prosthetic groups, fluorescent materials, luminescent materials, bioluminescent materials, and radioactive materials. Examples of suitable enzymes include horseradish peroxidase, alkaline phosphatase, β-galactosidase, or acetylcholinesterase; examples of suitable prosthetic group complexes include streptavidin/biotin and avidin/biotin; examples of suitable fluorescent materials include umbelliferone, fluorescein, fluorescein isothiocyanate, rhodamine, dichlorotriazinylamine fluorescein, dansyl chloride or phycoerythrin; an example of a luminescent material includes luminol; examples of bioluminescent materials include luciferase, luciferin, and aequorin, and examples of suitable radioactive material include 125I, 131I, 35S or 3H.

DIAGNOSTIC AND SCREENING ASSAYS OF THE INVENTION

The present invention also pertains to a method of diagnosing or aiding in the diagnosis of stroke associated with the presence of the PDE4D gene or gene product in an individual. Diagnostic assays can be designed for assessing PDE4D gene expression, or for assessing activity of PDE4D polypeptides of the invention. In one embodiment, the assays are used in the context of a biological sample (*e.g.*, blood, serum, cells, tissue) to thereby determine whether an individual is afflicted with stroke, or is at risk for (has a predisposition for or a susceptibility to) developing stroke. The invention also provides for prognostic (or predictive) assays for determining whether an individual is susceptible to developing stroke. For example, mutations in the gene can be assayed in a biological sample. Such assays can be used for prognostic or predictive purpose to thereby prophylactically treat an individual prior to the onset of symptoms associated with stroke. Another aspect of the invention pertains to assays for monitoring the influence of agents (e.g., drugs, compounds or other agents) on the gene expression or activity of polypeptides of the invention, as well as to assays for identifying agents which bind to PDE4D polypeptides. These and other assays and agents are described in further detail in the following sections.

DIAGNOSTIC ASSAYS

The nucleic acids, probes, primers, polypeptides and antibodies described herein can be used in methods of diagnosis of a susceptibility to stroke, as well as in kits useful for diagnosis of a susceptibility to stroke.

In one embodiment of the invention, diagnosis of a susceptibility to stroke is made by detecting a polymorphism in PDE4D as described herein. The polymorphism can be a mutation in PDE4D, such as the insertion or deletion of a single nucleotide, or of more than one nucleotide, resulting in a frame shift mutation; the change of at least one nucleotide, resulting in a change in the encoded amino acid; the change of at least one nucleotide, resulting in the generation of a premature stop codon; the deletion of several nucleotides, resulting in a deletion of one or more amino acids encoded by the nucleotides; the insertion of one or several nucleotides,

such as by unequal recombination or gene conversion, resulting in an interruption of the coding sequence of the gene; duplication of all or a part of the gene; transposition of all or a part of the gene; or rearrangement of all or a part of the gene. More than one such mutation may be present in a single gene. Such sequence changes cause a mutation in the polypeptide encoded by a PDE4D gene. For example, if the mutation is a frame shift mutation, the frame shift can result in a change in the encoded amino acids, and/or can result in the generation of a premature stop codon, causing generation of a truncated polypeptide. Alternatively, a polymorphism associated with a susceptibility to stroke can be a synonymous mutation in one or more nucleotides (i.e., a mutation that does not result in a change in the polypeptide encoded by a PDE4D gene). Such a polymorphism may alter splicing sites, affect the stability or transport of mRNA, or otherwise affect the transcription or translation of the gene. A PDE4D gene that has any of the mutations described above is referred to herein as a "mutant gene."

In a first method of diagnosing a susceptibility to stroke, hybridization methods, such as Southern analysis, Northern analysis, or *in situ* hybridizations, can be used (see Current Protocols in Molecular Biology, Ausubel, F. *et al.*, eds., John Wiley & Sons, including all supplements through 1999). For example, a biological sample from a test subject (a "test sample") of genomic DNA, RNA, or cDNA, is obtained from an individual suspected of having, being susceptible to or predisposed for, or carrying a defect for, stroke (the "test individual"). The individual can be an adult, child, or fetus. The test sample can be from any source which contains genomic DNA, such as a blood sample, sample of amniotic fluid, sample of cerebrospinal fluid, or tissue sample from skin, muscle, buccal or conjunctival mucosa, placenta, gastrointestinal tract or other organs. A test sample of DNA from fetal cells or tissue can be obtained by appropriate methods, such as by amniocentesis or chorionic villus sampling. The DNA, RNA, or cDNA sample is then examined to determine whether a polymorphism in *PDE4D* is present, and/or to determine which splicing variant(s) encoded by PDE4D is present. The presence of the polymorphism or splicing variant(s) can be indicated by hybridization of the gene in the genomic DNA, RNA, or cDNA to a nucleic acid probe. A "nucleic acid

probe", as used herein, can be a DNA probe or an RNA probe; the nucleic acid probe can contain at least one polymorphism in PDE4D or contains a nucleic acid encoding a particular splicing variant of PDE4D. The probe can be any of the nucleic acid molecules described above (e.g., the gene, a fragment, a vector comprising the gene, a probe or primer, etc.).

To diagnose a susceptibility to stroke, a hybridization sample is formed by contacting the test sample containing PDE4D, with at least one nucleic acid probe. A preferred probe for detecting mRNA or genomic DNA is a labeled nucleic acid probe capable of hybridizing to mRNA or genomic DNA sequences described herein. The nucleic acid probe can be, for example, a full-length nucleic acid molecule, or a portion thereof, such as an oligonucleotide of at least 15, 30, 50, 100, 250 or 500 nucleotides in length and sufficient to specifically hybridize under stringent conditions to appropriate mRNA or genomic DNA. For example, the nucleic acid probe can be all or a portion of SEQ ID NO: 1 which may optionally comprise at least one polymorphism shown in Tables 9 and 10 , or the complement thereof, or a portion thereof; or can be a nucleic acid encoding a portion of SEQ ID NO: 2, 3, 4, 5, 6, 7, 8, 9, 10, 12 or 14. Other suitable probes for use in the diagnostic assays of the invention are described above (see e.g., probes and primers discussed under the heading, "Nucleic Acids of the Invention").

The hybridization sample is maintained under conditions which are sufficient to allow specific hybridization of the nucleic acid probe to PDE4D. "Specific hybridization", as used herein, indicates exact hybridization (e.g., with no mismatches). Specific hybridization can be performed under high stringency conditions or moderate stringency conditions, for example, as described above. In a particularly preferred embodiment, the hybridization conditions for specific hybridization are high stringency.

Specific hybridization, if present, is then detected using standard methods. If specific hybridization occurs between the nucleic acid probe and PDE4D in the test sample, then PDE4D has the polymorphism, or is the splicing variant, that is present in the nucleic acid probe. More than one nucleic acid probe can also be used concurrently in this method. Specific hybridization of any one of the nucleic acid

probes is indicative of a polymorphism in PDE4D, or of the presence of a particular splicing variant encoding PDE4D and is therefore diagnostic for a susceptibility to stroke.

In Northern analysis (see Current Protocols in Molecular Biology, Ausubel, F. *et al.*, eds., John Wiley & Sons, *supra*) the hybridization methods described above are used to identify the presence of a polymorphism or a particular splicing variant, associated with a susceptibility to stroke. For Northern analysis, a test sample of RNA is obtained from the individual by appropriate means. Specific hybridization of a nucleic acid probe, as described above, to RNA from the individual is indicative of a polymorphism in PDE4D, or of the presence of a particular splicing variant encoded by PDE4D, and is therefore diagnostic for a susceptibility to stroke.

For representative examples of use of nucleic acid probes, see, for example, U.S. Patents No. 5,288,611 and 4,851,330.

Alternatively, a peptide nucleic acid (PNA) probe can be used instead of a nucleic acid probe in the hybridization methods described above. PNA is a DNA mimic having a peptide-like, inorganic backbone, such as N-(2-aminoethyl)glycine units, with an organic base (A, G, C, T or U) attached to the glycine nitrogen via a methylene carbonyl linker (see, for example, Nielsen, P.E. *et al., Bioconjugate Chemistry*, 1994, 5, American Chemical Society, p. 1 (1994). The PNA probe can be designed to specifically hybridize to a gene having a polymorphism associated with a susceptibility to stroke. Hybridization of the PNA probe to PDE4D is diagnostic for a susceptibility to stroke.

In another method of the invention, mutation analysis by restriction digestion can be used to detect a mutant gene, or genes containing a polymorphism(s), if the mutation or polymorphism in the gene results in the creation or elimination of a restriction site. A test sample containing genomic DNA is obtained from the individual. Polymerase chain reaction (PCR) can be used to amplify PDE4D (and, if necessary, the flanking sequences) in the test sample of genomic DNA from the test individual. RFLP analysis is conducted as described (see Current Protocols in Molecular Biology, *supra*). The digestion pattern of the relevant DNA fragment

indicates the presence or absence of the mutation or polymorphism in PDE4D, and therefore indicates the presence or absence of this susceptibility to stroke.

Sequence analysis can also be used to detect specific polymorphisms in PDE4D. A test sample of DNA or RNA is obtained from the test individual. PCR or other appropriate methods can be used to amplify the gene, and/or its flanking sequences, if desired. The sequence of PDE4D, or a fragment of the gene, or cDNA, or fragment of the cDNA, or mRNA, or fragment of the mRNA, is determined, using standard methods. The sequence of the gene, gene fragment, cDNA, cDNA fragment, mRNA, or mRNA fragment is compared with the known nucleic acid sequence of the gene, cDNA (e.g., SEQ ID NO:1 which may optionally comprise at least one polymorphism shown in Tables 9 and 10, or a nucleic acid sequence encoding SEQ ID NO: 2, 3, 4, 5, 6, 7, 8, 9, 10, 12 or 14, or a fragment thereof) or mRNA, as appropriate. The presence of a polymorphism in PDE4D indicates that the individual has a susceptibility to stroke.

Allele-specific oligonucleotides can also be used to detect the presence of a polymorphism in PDE4D, through the use of dot-blot hybridization of amplified oligonucleotides with allele-specific oligonucleotide (ASO) probes (see, for example, Saiki, R. *et al.*, (1986), *Nature (London) 324*:163-166). An "allele-specific oligonucleotide" (also referred to herein as an "allele-specific oligonucleotide probe") is an oligonucleotide of approximately 10-50 base pairs, preferably approximately 15-30 base pairs, that specifically hybridizes to PDE4D, and that contains a polymorphism associated with a susceptibility to stroke. An allele-specific oligonucleotide probe that is specific for particular polymorphisms in PDE4D can be prepared, using standard methods (see Current Protocols in Molecular Biology, *supra*). To identify polymorphisms in the gene that are associated with a susceptibility to stroke, a test sample of DNA is obtained from the individual. PCR can be used to amplify all or a fragment of PDE4D, and its flanking sequences. The DNA containing the amplified PDE4D (or fragment of the gene) is dot-blotted, using standard methods (see Current Protocols in Molecular Biology, *supra*), and the blot is contacted with the oligonucleotide probe. The presence of specific hybridization of the probe to the amplified PDE4D is then

detected. Specific hybridization of an allele-specific oligonucleotide probe to DNA from the individual is indicative of a polymorphism in PDE4D, and is therefore indicative of a susceptibility to stroke.

In another embodiment, arrays of oligonucleotide probes that are complementary to target nucleic acid sequence segments from an individual, can be used to identify polymorphisms in PDE4D. For example, in one embodiment, an oligonucleotide array can be used. Oligonucleotide arrays typically comprise a plurality of different oligonucleotide probes that are coupled to a surface of a substrate in different known locations. These oligonucleotide arrays, also described as "Genechips.TM.," have been generally described in the art, for example, U.S. Pat. No. 5,143,854 and PCT patent publication Nos. WO 90/15070 and 92/10092. These arrays can generally be produced using mechanical synthesis methods or light directed synthesis methods which incorporate a combination of photolithographic methods and solid phase oligonucleotide synthesis methods. See Fodor *et al.*, *Science, 251*:767-777 (1991), Pirrung *et al.*, U.S. Pat. No. 5,143,854 (see also PCT Application No. WO 90/15070) and Fodor *et al.*, PCT Publication No. WO 92/10092 and U.S. Pat. No. 5,424,186, the entire teachings of each of which are incorporated by reference herein. Techniques for the synthesis of these arrays using mechanical synthesis methods are described in, e.g., U.S. Pat. Nos. 5,384,261, the entire teachings of which are incorporated by reference herein.

Once an oligonucleotide array is prepared, a nucleic acid of interest is hybridized with the array and scanned for polymorphisms. Hybridization and scanning are generally carried out by methods described herein and also in, e.g., Published PCT Application Nos. WO 92/10092 and WO 95/11995, and U.S. Pat. No. 5,424,186, the entire teachings of which are incorporated by reference herein. In brief, a target nucleic acid sequence which includes one or more previously identified polymorphic markers is amplified by well known amplification techniques, e.g., PCR. Typically, this involves the use of primer sequences that are complementary to the two strands of the target sequence both upstream and downstream from the polymorphism. Asymmetric PCR techniques may also be used. Amplified target, generally incorporating a label, is then hybridized with the

array under appropriate conditions. Upon completion of hybridization and washing of the array, the array is scanned to determine the position on the array to which the target sequence hybridizes. The hybridization data obtained from the scan is typically in the form of fluorescence intensities as a function of location on the array.

Although primarily described in terms of a single detection block, e.g., for detection of a single polymorphism, arrays can include multiple detection blocks, and thus be capable of analyzing multiple, specific polymorphisms. In alternate arrangements, it will generally be understood that detection blocks may be grouped within a single array or in multiple, separate arrays so that varying, optimal conditions may be used during the hybridization of the target to the array. For example, it may often be desirable to provide for the detection of those polymorphisms that fall within G-C rich stretches of a genomic sequence, separately from those falling in A-T rich segments. This allows for the separate optimization of hybridization conditions for each situation.

Additional description of use of oligonucleotide arrays for detection of polymorphisms can be found, for example, in U.S. Patents 5,858,659 and 5,837,832, the entire teachings of which are incorporated by reference herein.

Other methods of nucleic acid analysis can be used to detect polymorphisms in PDE4D or splicing variants encoding by PDE4D. Representative methods include direct manual sequencing (Church and Gilbert, (1988), *Proc. Natl. Acad. Sci. USA 81*:1991-1995; Sanger, F. *et al.* (1977) *Proc. Natl. Acad. Sci. 74*:5463-5467; Beavis *et al.* U.S. Pat. No. 5,288,644); automated fluorescent sequencing; single-stranded conformation polymorphism assays (SSCP); clamped denaturing gel electrophoresis (CDGE); denaturing gradient gel electrophoresis (DGGE) (Sheffield, V.C. *et al.* (19891) *Proc. Natl. Acad. Sci. USA 86*:232-236), mobility shift analysis (Orita, M. *et al.* (1989) *Proc. Natl. Acad. Sci. USA 86*:2766-2770), restriction enzyme analysis (Flavell *et al.* (1978) *Cell 15*:25; Geever, *et al.* (1981) *Proc. Natl. Acad. Sci. USA 78*:5081); heteroduplex analysis; chemical mismatch cleavage (CMC) (Cotton *et al.* (1985) *Proc. Natl. Acad. Sci. USA 85*:4397-4401); RNase protection assays (Myers, R.M. *et al.* (1985) *Science 230*:1242); use of polypeptides

which recognize nucleotide mismatches, such as *E. coli* mutS protein; allele-specific PCR, for example.

In another embodiment of the invention, diagnosis of a susceptibility to stroke can also be made by examining expression and/or composition of an PDE4D polypeptide, by a variety of methods, including enzyme linked immunosorbent assays (ELISAs), Western blots, immunoprecipitations and immunofluorescence. A test sample from an individual is assessed for the presence of an alteration in the expression and/or an alteration in composition of the polypeptide encoded by PDE4D, or for the presence of a particular variant encoded by PDE4D. An alteration in expression of a polypeptide encoded by PDE4D can be, for example, an alteration in the quantitative polypeptide expression (i.e., the amount of polypeptide produced); an alteration in the composition of a polypeptide encoded by PDE4D is an alteration in the qualitative polypeptide expression (e.g., expression of a mutant PDE4D polypeptide or of a different splicing variant). In a preferred embodiment, diagnosis of a susceptibility to stroke is made by detecting a particular splicing variant encoded by PDE4D, or a particular pattern of splicing variants.

Both such alterations (quantitative and qualitative) can also be present. An "alteration" in the polypeptide expression or composition, as used herein, refers to an alteration in expression or composition in a test sample, as compared with the expression or composition of polypeptide by PDE4D in a control sample. A control sample is a sample that corresponds to the test sample (e.g., is from the same type of cells), and is from an individual who is not affected by stroke. An alteration in the expression or composition of the polypeptide in the test sample, as compared with the control sample, is indicative of a susceptibility to stroke. Similarly, the presence of one or more different splicing variants in the test sample, or the presence of significantly different amounts of different splicing variants in the test sample, as compared with the control sample, is indicative of a susceptibility to stroke. Various means of examining expression or composition of the polypeptide encoded by PDE4D can be used, including spectroscopy, colorimetry, electrophoresis, isoelectric focusing, and immunoassays (e.g., David *et al.*, U.S. Pat. No. 4,376,110) such as immunoblotting (see also Current Protocols in Molecular Biology,

particularly chapter 10). For example, in one embodiment, an antibody capable of binding to the polypeptide (e.g., as described above), preferably an antibody with a detectable label, can be used. Antibodies can be polyclonal, or more preferably, monoclonal. An intact antibody, or a fragment thereof (*e.g.*, Fab or $F(ab')_2$) can be used. The term "labeled", with regard to the probe or antibody, is intended to encompass direct labeling of the probe or antibody by coupling (*i.e.*, physically linking) a detectable substance to the probe or antibody, as well as indirect labeling of the probe or antibody by reactivity with another reagent that is directly labeled. Examples of indirect labeling include detection of a primary antibody using a fluorescently labeled secondary antibody and end-labeling of a DNA probe with biotin such that it can be detected with fluorescently labeled streptavidin.

Western blotting analysis, using an antibody as described above that specifically binds to a polypeptide encoded by a mutant PDE4D, or an antibody that specifically binds to a polypeptide encoded by a non-mutant gene, or an antibody that specifically binds to a particular splicing variant encoded by PDE4D, can be used to identify the presence in a test sample of a particular splicing variant or of a polypeptide encoded by a polymorphic or mutant PDE4D, or the absence in a test sample of a particular splicing variant or of a polypeptide encoded by a non-polymorphic or non-mutant gene. The presence of a polypeptide encoded by a polymorphic or mutant gene, or the absence of a polypeptide encoded by a non-polymorphic or non-mutant gene, is diagnostic for a susceptibility to stroke, as is the presence (or absence) of particular splicing variants encoded by the PDE4D gene.

In one embodiment of this method, the level or amount of polypeptide encoded by PDE4D in a test sample is compared with the level or amount of the polypeptide encoded by PDE4D in a control sample. A level or amount of the polypeptide in the test sample that is higher or lower than the level or amount of the polypeptide in the control sample, such that the difference is statistically significant, is indicative of an alteration in the expression of the polypeptide encoded by PDE4D, and is diagnostic for a susceptibility to stroke. Alternatively, the composition of the polypeptide encoded by PDE4D in a test sample is compared with the composition of the polypeptide encoded by PDE4D in a control sample

(e.g., the presence of different splicing variants). A difference in the composition of the polypeptide in the test sample, as compared with the composition of the polypeptide in the control sample, is diagnostic for a susceptibility to stroke. In another embodiment, both the level or amount and the composition of the polypeptide can be assessed in the test sample and in the control sample. A difference in the amount or level of the polypeptide in the test sample, compared to the control sample; a difference in composition in the test sample, compared to the control sample; or both a difference in the amount or level, and a difference in the composition, is indicative of a susceptibility to stroke.

Kits (e.g., reagent kits) useful in the methods of diagnosis comprise components useful in any of the methods described herein, including for example, hybridization probes or primers as decribed herein (e.g., labeled probes or prmers), reagents for detection of labeled molecules, restriction enzymes (e.g., for RFLP analysis), allele-specific oligonucleotides, antibodies which bind to mutant or to non-mutant (native) PDE4D polypeptide, means for amplification of nucleic acids comprising PDE4D, or means for analyzing the nucleic acid sequence of PDE4D or for analyzing the amino acid sequence of an PDE4D polypeptide, etc.

SCREENING ASSAYS AND AGENTS IDENTIFIED THEREBY

The invention provides methods (also referred to herein as "screening assays") for identifying the presence of a nucleotide that hybridizes to a nucleic acid of the invention, as well as for identifying the presence of a polypeptide encoded by a nucleic acid of the invention. In one embodiment, the presence (or absence) of a nucleic acid molecule of interest (e.g., a nucleic acid that has significant homology with a nucleic acid of the invention) in a sample can be assessed by contacting the sample with a nucleic acid comprising a nucleic acid of the invention (e.g., a nucleic acid having the sequence of SEQ ID NO: 1 which may optionally comprise at least one polymorphism shown in Tables 9 and 10, or the complement thereof, or a nucleic acid encoding an amino acid having the sequence of SEQ ID NO: 2, 3, 4, 5, 6, 7, 8, 9, 10, 12 or 14, or a fragment or variant of such nucleic acids), under stringent conditions as described above, and then assessing the sample for the

presence (or absence) of hybridization. In a preferred embodiment, high stringency conditions are conditions appropriate for selective hybridization. In another embodiment, a sample containing the nucleic acid molecule of interest is contacted with a nucleic acid containing a contiguous nucleotide sequence (e.g., a primer or a probe as described above) that is at least partially complementary to a part of the nucleic acid molecule of interest (e.g., a PDE4D nucleic acid), and the contacted sample is assessed for the presence or absence of hybridization. In a preferred embodiment, the nucleic acid containing a contiguous nucleotide sequence is completely complementary to a part of the nucleic acid molecule of interest.

In any of these embodiment, all or a portion of the nucleic acid of interest can be subjected to amplification prior to performing the hybridization.

In another embodiment, the presence (or absence) of a polypeptide of interest, such as a polypeptide of the invention or a fragment or variant thereof, in a sample can be assessed by contacting the sample with an antibody that specifically hybridizes to the polypeptide of interest (e.g., an antibody such as those described above), and then assessing the sample for the presence (or absence) of binding of the antibody to the polypeptide of interest.

In another embodiment, the invention provides methods for identifying agents (e.g., fusion proteins, polypeptides, peptidomimetics, prodrugs, receptors, binding agents, antibodies, small molecules or other drugs, or ribozymes which alter (e.g., increase or decrease) the activity of the polypeptides described herein, or which otherwise interact with the polypeptides herein. For example, such agents can be agents which bind to polypeptides described herein (e.g., PDE4D binding agents); which have a stimulatory or inhibitory effect on, for example, activity of polypeptides of the invention; or which change (e.g., enhance or inhibit) the ability of the polypeptides of the invention to interact with PDE4D binding agents (e.g., receptors or other binding agents); or which alter posttranslational processing of the PDE4D polypeptide (e.g., agents that alter proteolytic processing to direct the polypeptide from where it is normally synthesized to another location in the cell, such as the cell surface; agents that alter proteolytic processing such that more polypeptide is released from the cell, etc.

In one embodiment, the invention provides assays for screening candidate or test agents that bind to or modulate the activity of polypeptides described herein (or biologically active portion(s) thereof), as well as agents identifiable by the assays. Test agents can be obtained using any of the numerous approaches in combinatorial library methods known in the art, including: biological libraries; spatially addressable parallel solid phase or solution phase libraries; synthetic library methods requiring deconvolution; the 'one-bead one-compound' library method; and synthetic library methods using affinity chromatography selection. The biological library approach is limited to polypeptide libraries, while the other four approaches are applicable to polypeptide, non-peptide oligomer or small molecule libraries of compounds (Lam, K.S. (1997) *Anticancer Drug Des., 12*:145).

In one embodiment, to identify agents which alter the activity of a PDE4D polypeptide, a cell, cell lysate, or solution containing or expressing a PDE4D polypeptide (e.g., SEQ ID NO: 2, 3, 4, 5, 6, 7, 8, 9, 10, 12 or 14, or another splicing variant encoded by PDE4D), or a fragment or derivative thereof (as described above), can be contacted with an agent to be tested; alternatively, the polypeptide can be contacted directly with the agent to be tested. The level (amount) of PDE4D activity is assessed (e.g., the level (amount) of PDE4D activity is measured, either directly or indirectly), and is compared with the level of activity in a control (i.e., the level of activity of the PDE4D polypeptide or active fragment or derivative thereof in the absence of the agent to be tested). If the level of the activity in the presence of the agent differs, by an amount that is statistically significant, from the level of the activity in the absence of the agent, then the agent is an agent that alters the activity of PDE4D polypeptide. An increase in the level of PDE4D activity relative to a control, indicates that the agent is an agent that enhances (is an agonist of) PDE4D activity. Similarly, a decrease in the level of PDE4D activity relative to a control, indicates that the agent is an agent that inhibits (is an antagonist of) PDE4D activity. In another embodiment, the level of activity of a PDE4D polypeptide or derivative or fragment thereof in the presence of the agent to be tested, is compared with a control level that has previously been established. A level of the activity in the

presence of the agent that differs from the control level by an amount that is statistically significant indicates that the agent alters PDE4D activity.

The present invention also relates to an assay for identifying agents which alter the expression of the PDE4D gene (e.g., antisense nucleic acids, fusion proteins, polypeptides, peptidomimetics, prodrugs, receptors, binding agents, antibodies, small molecules or other drugs, or ribozymes) which alter (e.g., increase or decrease) expression (e.g., transcription or translation) of the gene or which otherwise interact with the nucleic acids described herein, as well as agents identifiable by the assays. For example, a solution containing a nucleic acid encoding PDE4D polypeptide (e.g., PDE4D gene) can be contacted with an agent to be tested. The solution can comprise, for example, cells containing the nucleic acid or cell lysate containing the nucleic acid; alternatively, the solution can be another solution which comprises elements necessary for transcription/translation of the nucleic acid. Cells not suspended in solution can also be employed, if desired. The level and/or pattern of PDE4D expression (e.g., the level and/or pattern of mRNA or of protein expressed, such as the level and/or pattern of different splicing variants) is assessed, and is compared with the level and/or pattern of expression in a control (i.e., the level and/or pattern of the PDE4D expression in the absence of the agent to be tested). If the level and/or pattern in the presence of the agent differs, by an amount or in a manner that is statistically significant, from the level and/or pattern in the absence of the agent, then the agent is an agent that alters the expression of PDE4D. Enhancement of PDE4D expression indicates that the agent is an agonist of PDE4D activity. Similarly, inhibition of PDE4D expression indicates that the agent is an antagonist of PDE4D activity. In another embodiment, the level and/or pattern of PDE4D polypeptide(s)(e.g., different splicing variants) in the presence of the agent to be tested, is compared with a control level and/or pattern that has previously been established. A level and/or pattern in the presence of the agent that differs from the control level and/or pattern by an amount or in a manner that is statistically significant indicates that the agent alters PDE4D expression.

In another embodiment of the invention, agents which alter the expression of the PDE4D gene or which otherwise interact with the nucleic acids described herein,

can be identified using a cell, cell lysate, or solution containing a nucleic acid encoding the promoter region of the PDE4D gene operably linked to a reporter gene. After contact with an agent to be tested, the level of expression of the reporter gene (e.g., the level of mRNA or of protein expressed) is assessed, and is compared with the level of expression in a control (i.e., the level of the expression of the reporter gene in the absence of the agent to be tested). If the level in the presence of the agent differs, by an amount or in a manner that is statistically significant, from the level in the absence of the agent, then the agent is an agent that alters the expression of PDE4D, as indicated by its ability to alter expression of a gene that is operably linked to the PDE4D gene promoter. Enhancement of the expression of the reporter indicates that the agent is an agonist of PDE4D activity. Similarly, inhibition of the expression of the reporter indicates that the agent is an antagonist of PDE4D activity. In another embodiment, the level of expression of the reporter in the presence of the agent to be tested, is compared with a control level that has previously been established. A level in the presence of the agent that differs from the control level by an amount or in a manner that is statistically significant indicates that the agent alters PDE4D expression.

Agents which alter the amounts of different splicing variants encoded by PDE4D (e.g., an agent which enhances activity of a first splicing variant, and which inhibits activity of a second splicing variant), as well as agents which are agonists of activity of a first splicing variant and antagonists of activity of a second splicing variant, can easily be identified using these methods described above.

In other embodiments of the invention, assays can be used to assess the impact of a test agent on the activity of a polypeptide in relation to a PDE4D binding agent. For example, a cell that expresses a compound that interacts with PDE4D (herein referred to as a "PDE4D binding agent", which can be a polypeptide or other molecule that interacts with PDE4D, such as a receptor) is contacted with PDE4D in the presence of a test agent, and the ability of the test agent to alter the interaction between PDE4D and the PDE4D binding agent is determined. Alternatively, a cell lysate or a solution containing the PDE4D binding agent, can be used. An agent

which binds to PDE4D or the PDE4D binding agent can alter the interaction by interfering with, or enhancing the ability of PDE4D to bind to, associate with, or otherwise interact with the PDE4D binding agent. Determining the ability of the test agent to bind to PDE4D or an PDE4D binding agent can be accomplished, for example, by coupling the test agent with a radioisotope or enzymatic label such that binding of the test agent to the polypeptide can be determined by detecting the labeled with ^{125}I, ^{35}S, ^{14}C or ^{3}H, either directly or indirectly, and the radioisotope detected by direct counting of radioemmission or by scintillation counting. Alternatively, test agents can be enzymatically labeled with, for example, horseradish peroxidase, alkaline phosphatase, or luciferase, and the enzymatic label detected by determination of conversion of an appropriate substrate to product. It is also within the scope of this invention to determine the ability of a test agent to interact with the polypeptide without the labeling of any of the interactants. For example, a microphysiometer can be used to detect the interaction of a test agent with PDE4D or a PDE4D binding agent without the labeling of either the test agent, PDE4D, or the PDE4D binding agent. McConnell, H.M. *et al.* (1992) *Science, 257*:1906-1912. As used herein, a "microphysiometer" (*e.g.*, Cytosensor™) is an analytical instrument that measures the rate at which a cell acidifies its environment using a light-addressable potentiometric sensor (LAPS). Changes in this acidification rate can be used as an indicator of the interaction between ligand and polypeptide. See the Examples Section for a discussion of know PDE4D binding partners. Thus, these receptors can be used to screen for compounds that are PDE4D receptor agonists for use in treating stroke or PDE4D receptor antagonists for studying stroke. The linkage data provided herein, for the first time, provides such connection to stroke. Drugs could be designed to regulate PDE4D receptor activation which in turn can be used to regulate signaling pathways and transcription events of genes downstream, such as Cbfa1.

In another embodiment of the invention, assays can be used to identify polypeptides that interact with one or more PDE4D polypeptides, as described herein. For example, a yeast two-hybrid system such as that described by Fields and Song (Fields, S. and Song, O., *Nature 340*:245-246 (1989)) can be used to identify

polypeptides that interact with one or more PDE4D polypeptides. I- such a yeast two-hybrid system, vectors are constructed based on the flexibility of a transcription factor which has two functional domains (a DNA binding domain and a transcription activation domain). If the two domains are separated but fused to two different proteins that interact with one another, transcriptional activation can be achieved, and transcription of specific markers (e.g., nutritional markers such as His and Ade, or color markers such as lacZ) can be used to identify the presence of interaction and transcriptional activation. For example, in the methods of the invention, a first vector is used which includes a nucleic acid encoding a DNA binding domain and also an PDE4D polypeptide, splicing variant, or fragment or derivative thereof, and a second vector is used which includes a nucleic acid encoding a transcription activation domain and also a nucleic acid encoding a polypeptide which potentially may interact with the PDE4D polypeptide, splicing variant, or fragment or derivative thereof (e.g., a PDE4D polypeptide binding agent or receptor). Incubation of yeast containing the first vector and the second vector under appropriate conditions (e.g., mating conditions such as used in the Matchmaker™ system from Clontech) allows identification of colonies which express the markers of interest. These colonies can be examined to identify the polypeptide(s) which interact with the PDE4D polypeptide or fragment or derivative thereof. Such polypeptides may be useful as agents which alter the activity of expression of an PDE4D polypeptide, as described above.

In more than one embodiment of the above assay methods of the present invention, it may be desirable to immobilize either PDE4D, the PDE4D binding agent, or other components of the assay on a solid support, in order to facilitate separation of complexed from uncomplexed forms of one or both of the polypeptides, as well as to accommodate automation of the assay. Binding of a test agent to the polypeptide, or interaction of the polypeptide with a binding agent in the presence and absence of a test agent, can be accomplished in any vessel suitable for containing the reactants. Examples of such vessels include microtitre plates, test tubes, and micro-centrifuge tubes. In one embodiment, a fusion protein (e.g., a glutathione-S-transferase fusion protein) can be provided which adds a domain that

allows PDE4D or a PDE4D binding agent to be bound to a matrix or other solid support.

In another embodiment, modulators of expression of nucleic acid molecules of the invention are identified in a method wherein a cell, cell lysate, or solution containing a nucleic acid encoding PDE4D is contacted with a test agent and the expression of appropriate mRNA or polypeptide (e.g., splicing variant(s)) in the cell, cell lysate, or solution, is determined. The level of expression of appropriate mRNA or polypeptide(s) in the presence of the test agent is compared to the level of expression of mRNA or polypeptide(s) in the absence of the test agent. The test agent can then be identified as a modulator of expression based on this comparison. For example, when expression of mRNA or polypeptide is greater (statistically significantly greater) in the presence of the test agent than in its absence, the test agent is identified as a stimulator or enhancer of the mRNA or polypeptide expression. Alternatively, when expression of the mRNA or polypeptide is less (statistically significantly less) in the presence of the test agent than in its absence, the test agent is identified as an inhibitor of the mRNA or polypeptide expression. The level of mRNA or polypeptide expression in the cells can be determined by methods described herein for detecting mRNA or polypeptide.

This invention further pertains to novel agents identified by the above-described screening assays. Accordingly, it is within the scope of this invention to further use an agent identified as described herein in an appropriate animal model. For example, an agent identified as described herein (e.g., a test agent that is a modulating agent, an antisense nucleic acid molecule, a specific antibody, or a polypeptide-binding agent) can be used in an animal model to determine the efficacy, toxicity, or side effects of treatment with such an agent. Alternatively, an agent identified as described herein can be used in an animal model to determine the mechanism of action of such an agent. Furthermore, this invention pertains to uses of novel agents identified by the above-described screening assays for treatments as described herein. In addition, an agent identified as described herein can be used to alter activity of a polypeptide encoded by PDE4D, or to alter expression of PDE4D, by contacting the polypeptide or the gene (or contacting a cell

comprising the polypeptide or the gene) with the agent identified as described herein.

PHARMACEUTICAL COMPOSITIONS

The present invention also pertains to pharmaceutical compositions comprising nucleic acids described herein, particularly nucleotides encoding the polypeptides described herein; comprising polypeptides described herein (e.g., one or more of SEQ ID NO: 2, 3, 4, 5, 6, 7, 8, 9, 10, 12 or 14); and/or comprising other splicing variants encoded by PDE4D; and/or an agent that alters (e.g., enhances or inhibits) PDE4D gene expression or PDE4D polypeptide activity as described herein. For instance, a polypeptide, protein (e.g., an PDE4D receptor), an agent that alters PDE4D gene expression, or a PDE4D binding agent or binding partner, fragment, fusion protein or prodrug thereof, or a nucleotide or nucleic acid construct (vector) comprising a nucleotide of the present invention, or an agent that alters PDE4D polypeptide activity, can be formulated with a physiologically acceptable carrier or excipient to prepare a pharmaceutical composition. The carrier and composition can be sterile. The formulation should suit the mode of administration.

Suitable pharmaceutically acceptable carriers include but are not limited to water, salt solutions (e.g., NaCl), saline, buffered saline, alcohols, glycerol, ethanol, gum arabic, vegetable oils, benzyl alcohols, polyethylene glycols, gelatin, carbohydrates such as lactose, amylose or starch, dextrose, magnesium stearate, talc, silicic acid, viscous paraffin, perfume oil, fatty acid esters, hydroxymethylcellulose, polyvinyl pyrolidone, etc., as well as combinations thereof. The pharmaceutical preparations can, if desired, be mixed with auxiliary agents, e.g., lubricants, preservatives, stabilizers, wetting agents, emulsifiers, salts for influencing osmotic pressure, buffers, coloring, flavoring and/or aromatic substances and the like which do not deleteriously react with the active agents.

The composition, if desired, can also contain minor amounts of wetting or emulsifying agents, or pH buffering agents. The composition can be a liquid solution, suspension, emulsion, tablet, pill, capsule, sustained release formulation, or powder. The composition can be formulated as a suppository, with traditional

binders and carriers such as triglycerides. Oral formulation can include standard carriers such as pharmaceutical grades of mannitol, lactose, starch, magnesium stearate, polyvinyl pyrollidone, sodium saccharine, cellulose, magnesium carbonate, etc.

Methods of introduction of these compositions include, but are not limited to, intradermal, intramuscular, intraperitoneal, intraocular, intravenous, subcutaneous, topical, oral and intranasal. Other suitable methods of introduction can also include gene therapy (as described below), rechargeable or biodegradable devices, particle acceleration devises ("gene guns") and slow release polymeric devices. The pharmaceutical compositions of this invention can also be administered as part of a combinatorial therapy with other agents.

The composition can be formulated in accordance with the routine procedures as a pharmaceutical composition adapted for administration to human beings. For example, compositions for intravenous administration typically are solutions in sterile isotonic aqueous buffer. Where necessary, the composition may also include a solubilizing agent and a local anesthetic to ease pain at the site of the injection. Generally, the ingredients are supplied either separately or mixed together in unit dosage form, for example, as a dry lyophilized powder or water free concentrate in a hermetically sealed container such as an ampule or sachette indicating the quantity of active agent. Where the composition is to be administered by infusion, it can be dispensed with an infusion bottle containing sterile pharmaceutical grade water, saline or dextrose/water. Where the composition is administered by injection, an ampule of sterile water for injection or saline can be provided so that the ingredients may be mixed prior to administration.

For topical application, nonsprayable forms, viscous to semi-solid or solid forms comprising a carrier compatible with topical application and having a dynamic viscosity preferably greater than water, can be employed. Suitable formulations include but are not limited to solutions, suspensions, emulsions, creams, ointments, powders, enemas, lotions, sols, liniments, salves, aerosols, etc., which are, if desired, sterilized or mixed with auxiliary agents, e.g., preservatives, stabilizers, wetting agents, buffers or salts for influencing osmotic pressure, etc. The

agent may be incorporated into a cosmetic formulation. For topical application, also suitable are sprayable aerosol preparations wherein the active ingredient, preferably in combination with a solid or liquid inert carrier material, is packaged in a squeeze bottle or in admixture with a pressurized volatile, normally gaseous propellant, e.g., pressurized air.

Agents described herein can be formulated as neutral or salt forms. Pharmaceutically acceptable salts include those formed with free amino groups such as those derived from hydrochloric, phosphoric, acetic, oxalic, tartaric acids, etc., and those formed with free carboxyl groups such as those derived from sodium, potassium, ammonium, calcium, ferric hydroxides, isopropylamine, triethylamine, 2-ethylamino ethanol, histidine, procaine, etc.

The agents are administered in a therapeutically effective amount. The amount of agents which will be therapeutically effective in the treatment of a particular disorder or condition will depend on the nature of the disorder or condition, and can be determined by standard clinical techniques. In addition, *in vitro* or *in vivo* assays may optionally be employed to help identify optimal dosage ranges. The precise dose to be employed in the formulation will also depend on the route of administration, and the seriousness of the symptoms of stroke, and should be decided according to the judgment of a practitioner and each patient's circumstances. Effective doses may be extrapolated from dose-response curves derived from *in vitro* or animal model test systems.

The invention also provides a pharmaceutical pack or kit comprising one or more containers filled with one or more of the ingredients of the pharmaceutical compositions of the invention. Optionally associated with such container(s) can be a notice in the form prescribed by a governmental agency regulating the manufacture, use or sale of pharmaceuticals or biological products, which notice reflects approval by the agency of manufacture, use of sale for human administration. The pack or kit can be labeled with information regarding mode of administration, sequence of drug administration (e.g., separately, sequentially or concurrently), or the like. The pack or kit may also include means for reminding the patient to take the therapy. The pack or kit can be a single unit dosage of the combination therapy or it can be a

plurality of unit dosages. In particular, the agents can be separated, mixed together in any combination, present in a single vial or tablet. Agents assembled in a blister pack or other dispensing means is preferred. For the purpose of this invention, unit dosage is intended to mean a dosage that is dependent on the individual pharmacodynamics of each agent and administered in FDA approved dosages in standard time courses.

METHODS OF THERAPY

The present invention also pertains to methods of treatment (prophylactic and/or therapeutic) for stroke, particularly ischemic and TIA, using a PDE4D therapeutic agent. A "PDE4D therapeutic agent" is an agent that alters (e.g., enhances or inhibits) PDE4D polypeptide activity and/or PDE4D gene expression, as described herein (e.g., a PDE4D agonist or antagonist). PDE4D therapeutic agents can alter PDE4D polypeptide activity or gene expression by a variety of means, such as, for example, by providing additional PDE4D polypeptide or by upregulating the transcription or translation of the PDE4D gene; by altering posttranslational processing of the PDE4D polypeptide; by altering transcription of PDE4D splicing variants; or by interfering with PDE4D polypeptide activity (e.g., by binding to a PDE4D polypeptide), or by downregulating the transcription or translation of the PDE4D gene. Representative PDE4D therapeutic agents include the following:

nucleic acids or fragments or derivatives thereof described herein, particularly nucleotides encoding the polypeptides described herein and vectors comprising such nucleic acids (e.g., a gene, cDNA, and/or mRNA, such as a nucleic acid encoding a PDE4D polypeptide or active fragment or derivative thereof, or an oligonucleotide; for example, SEQ ID NO: 1 which may optionally comprise at least one polymorphism shown in Tables 9 and 10 or a nucleic acid encoding SEQ ID NO: 2, 3, 4, 5, 6, 7, 8, 9, 10, 12 or 14, or fragments or derivatives thereof);

polypeptides described herein (e.g., one or more of SEQ ID NO: 2, 3, 4, 5, 6, 7, 8, 9, 10, 12 or 14, and/or other splicing variants encoded by PDE4D, or fragments or derivatives thereof);

other polypeptides (e.g., PDE4D receptors); PDE4D binding agents; peptidomimetics; fusion proteins or prodrugs thereof; antibodies (e.g., an antibody to a mutant PDE4D polypeptide, or an antibody to a non-mutant PDE4D polypeptide, or an antibody to a particular splicing variant encoded by PDE4D, as described above); ribozymes; other small molecules;

and other agents that alter (e.g., enhance or inhibit) PDE4D gene expression or polypeptide activity, or that regulate transcription of PDE4D splicing variants (e.g., agents that affect which splicing variants are expressed, or that affect the amount of each splicing variant that is expressed.

More than one PDE4D therapeutic agent can be used concurrently, if desired.

The PDE4D therapeutic agent that is a nucleic acid is used in the treatment of stroke. The term, "treatment" as used herein, refers not only to ameliorating symptoms associated with the disease, but also preventing or delaying the onset of the disease, and also lessening the severity or frequency of symptoms of the disease. The therapy is designed to alter (e.g., inhibit or enhance), replace or supplement activity of a PDE4D polypeptide in an individual. For example, a PDE4D therapeutic agent can be administered in order to upregulate or increase the expression or availability of the PDE4D gene or of specific splicing variants of PDE4D, or, conversely, to downregulate or decrease the expression or availability of the PDE4D gene or specific splicing variants of PDE4D. Upregulation or increasing expression or availability of a native PDE4D gene or of a particular splicing variant could interfere with or compensate for the expression or activity of a defective gene or another splicing variant; downregulation or decreasing expression or availability of a native PDE4D gene or of a particular splicing variant could minimize the expression or activity of a defective gene or the particular splicing variant and thereby minimize the impact of the defective gene or the particular splicing variant.

The PDE4D therapeutic agent(s) are administered in a therapeutically effective amount (i.e., an amount that is sufficient to treat the disease, such as by ameliorating symptoms associated with the disease, preventing or delaying the onset of the disease, and/or also lessening the severity or frequency of symptoms of the disease). The amount which will be therapeutically effective in the treatment of a

particular individual's disorder or condition will depend on the symptoms and severity of the disease, and can be determined by standard clinical techniques. In addition, *in vitro* or *in vivo* assays may optionally be employed to help identify optimal dosage ranges. The precise dose to be employed in the formulation will also depend on the route of administration, and the seriousness of the disease or disorder, and should be decided according to the judgment of a practitioner and each patient's circumstances. Effective doses may be extrapolated from dose-response curves derived from *in vitro* or animal model test systems.

In one embodiment, a nucleic acid of the invention (e.g., a nucleic acid encoding a PDE4D polypeptide, such as SEQ ID NO:1 which may optionally comprise at least one polymorphism shown in Tables 9 and 10; or another nucleic acid that encodes a PDE4D polypeptide or a splicing variant, derivative or fragment thereof, such as a nucleic acid encoding SEQ ID NO: 2, 3, 4, 5, 6, 7, 8, 9, 10, 12 or 14) can be used, either alone or in a pharmaceutical composition as described above. For example, PDE4D or a cDNA encoding the PDE4D polypeptide, either by itself or included within a vector, can be introduced into cells (either *in vitro* or *in vivo*) such that the cells produce native PDE4D polypeptide. If necessary, cells that have been transformed with the gene or cDNA or a vector comprising the gene or cDNA can be introduced (or re-introduced) into an individual affected with the disease. Thus, cells which, in nature, lack native PDE4D expression and activity, or have mutant PDE4D expression and activity, or have expression of a disease-associated PDE4D splicing variant, can be engineered to express PDE4D polypeptide or an active fragment of the PDE4D polypeptide (or a different variant of PDE4D polypeptide). In a preferred embodiment, nucleic acid encoding the PDE4D polypeptide, or an active fragment or derivative thereof, can be introduced into an expression vector, such as a viral vector, and the vector can be introduced into appropriate cells in an animal. Other gene transfer systems, including viral and nonviral transfer systems, can be used. Alternatively, nonviral gene transfer methods, such as calcium phosphate coprecipitation, mechanical techniques (e.g., microinjection); membrane fusion-mediated transfer via liposomes; or direct DNA uptake, can also be used.

Alternatively, in another embodiment of the invention, a nucleic acid of the invention; a nucleic acid complementary to a nucleic acid of the invention; or a portion of such a nucleic acid (e.g., an oligonucleotide as described below), can be used in "antisense" therapy, in which a nucleic acid (e.g., an oligonucleotide) which specifically hybridizes to the mRNA and/or genomic DNA of PDE4D is administered or generated *in situ*. The antisense nucleic acid that specifically hybridizes to the mRNA and/or DNA inhibits expression of the PDE4D polypeptide, e.g., by inhibiting translation and/or transcription. Binding of the antisense nucleic acid can be by conventional base pair complementarity, or, for example, in the case of binding to DNA duplexes, through specific interaction in the major groove of the double helix.

An antisense construct of the present invention can be delivered, for example, as an expression plasmid as described above. When the plasmid is transcribed in the cell, it produces RNA which is complementary to a portion of the mRNA and/or DNA which encodes PDE4D polypeptide. Alternatively, the antisense construct can be an oligonucleotide probe which is generated *ex vivo* and introduced into cells; it then inhibits expression by hybridizing with the mRNA and/or genomic DNA of PDE4D. In one embodiment, the oligonucleotide probes are modified oligonucleotides which are resistant to endogenous nucleases, e.g. exonucleases and/or endonucleases, thereby rendering them stable *in vivo*. Exemplary nucleic acid molecules for use as antisense oligonucleotides are phosphoramidate, phosphothioate and methylphosphonate analogs of DNA (see also U.S. Pat. Nos. 5,176,996; 5,264,564; and 5,256,775). Additionally, general approaches to constructing oligomers useful in antisense therapy are also described, for example, by Van der Krol *et al.* ((1988) *Biotechniques* 6:958-976); and Stein *et al.* ((1988) *Cancer Res* 48:2659-2668). With respect to antisense DNA, oligodeoxyribonucleotides derived from the translation initiation site, e.g. between the -10 and +10 regions of PDE4D sequence, are preferred.

To perform antisense therapy, oligonucleotides (mRNA, cDNA or DNA) are designed that are complementary to mRNA encoding PDE4D. The antisense oligonucleotides bind to PDE4D mRNA transcripts and prevent translation.

Absolute complementarity, although preferred, is not required. a sequence "complementary" to a portion of an RNA, as referred to herein, indicates that a sequence has sufficient complementarity to be able to hybridize with the RNA, forming a stable duplex; in the case of double-stranded antisense nucleic acids, a single strand of the duplex DNA may thus be tested, or triplex formation may be assayed. The ability to hybridize will depend on both the degree of complementarity and the length of the antisense nucleic acid, as described in detail above. Generally, the longer the hybridizing nucleic acid, the more base mismatches with an RNA it may contain and still form a stable duplex (or triplex, as the case may be). One skilled in the art can ascertain a tolerable degree of mismatch by use of standard procedures.

The oligonucleotides used in antisense therapy can be DNA, RNA, or chimeric mixtures or derivatives or modified versions thereof, single-stranded or double-stranded. The oligonucleotides can be modified at the base moiety, sugar moiety, or phosphate backbone, for example, to improve stability of the molecule, hybridization, etc. The oligonucleotides can include other appended groups such as peptides (e.g. for targeting host cell receptors *in vivo*), or agents facilitating transport across the cell membrane (see, e.g., Letsinger *et al.* (1989) *Proc. Natl. Acad. Sci. USA* 86:6553-6556; Lemaitre *et al.*, (1987), *Proc. Natl. Acad Sci. USA* 84:648-652; PCT International Publication No. W088/09810) or the blood-brain barrier (see, e.g., PCT International Publication No. W089/10134), or hybridization-triggered cleavage agents (see, e.g., Krol *et al.* (1988) *BioTechniques* 6:958-976) or intercalating agents. (See, e.g., Zon, (1988), *Pharm. Res.* 5:539-549). To this end, the oligonucleotide may be conjugated to another molecule (e.g., a peptide, hybridization triggered cross-linking agent, transport agent, hybridization-triggered cleavage agent).

The antisense molecules are delivered to cells which express PDE4D *in vivo*. A number of methods can be used for delivering antisense DNA or RNA to cells; e.g., antisense molecules can be injected directly into the tissue site, or modified antisense molecules, designed to target the desired cells (e.g., antisense linked to peptides or antibodies that specifically bind receptors or antigens expressed on the

target cell surface) can be administered systematically. Alternatively, in a preferred embodiment, a recombinant DNA construct is utilized in which the antisense oligonucleotide is placed under the control of a strong promoter (e.g., pol III or pol II). The use of such a construct to transfect target cells in the patient results in the transcription of sufficient amounts of single stranded RNAs that will form complementary base pairs with the endogenous PDE4D transcripts and thereby prevent translation of the PDE4D mRNA. For example, a vector can be introduced *in vivo* such that it is taken up by a cell and directs the transcription of an antisense RNA. Such a vector can remain episomal or become chromosomally integrated, as long as it can be transcribed to produce the desired antisense RNA. Such vectors can be constructed by recombinant DNA technology methods standard in the art and described above. For example, a plasmid, cosmid, YAC or viral vector can be used to prepare the recombinant DNA construct which can be introduced directly into the tissue site. Alternatively, viral vectors can be used which selectively infect the desired tissue, in which case administration may be accomplished by another route (e.g., systematically).

Endogenous PDE4D expression can also be reduced by inactivating or "knocking out" PDE4D or its promoter using targeted homologous recombination (e.g., see Smithies *et al.* (1985) *Nature* 317:230-234; Thomas & Capecchi (1987) *Cell* 51:503-512; Thompson *et al.* (1989) *Cell* 5:313-321). For example, a mutant, non-functional PDE4D (or a completely unrelated DNA sequence) flanked by DNA homologous to the endogenous PDE4D (either the coding regions or regulatory regions of PDE4D) can be used, with or without a selectable marker and/or a negative selectable marker, to transfect cells that express PDE4D *in vivo*. Insertion of the DNA construct, via targeted homologous recombination, results in inactivation of PDE4D. The recombinant DNA constructs can be directly administered or targeted to the required site *in vivo* using appropriate vectors, as described above. Alternatively, expression of non-mutant PDE4D can be increased using a similar method: targeted homologous recombination can be used to insert a DNA construct comprising a non-mutant, functional PDE4D (e.g., a gene having SEQ ID NO:1 which may optionally comprise at least one polymorphism shown in

Tables 9 and 10), or a portion thereof, in place of a mutant PDE4D in the cell, as described above. In another embodiment, targeted homologous recombination can be used to insert a DNA construct comprising a nucleic acid that encodes a PDE4D polypeptide variant that differs from that present in the cell.

Alternatively, endogenous PDE4D expression can be reduced by targeting deoxyribonucleotide sequences complementary to the regulatory region of PDE4D (i.e., the PDE4D promoter and/or enhancers) to form triple helical structures that prevent transcription of PDE4D in target cells in the body. (See generally, Helene, C. (1991) *Anticancer Drug Des.*, 6(6):569-84; Helene, C., *et al.* (1992) *Ann, N.Y. Acad. Sci.*, 660:27-36; and Maher, L. J. (1992) *Bioassays* 14(12):807-15). Likewise, the antisense constructs described herein, by antagonizing the normal biological activity of one of the PDE4D proteins, can be used in the manipulation of tissue, e.g. tissue differentiation, both *in vivo* and *for ex vivo* tissue cultures. Furthermore, the anti-sense techniques (e.g. microinjection of antisense molecules, or transfection with plasmids whose transcripts are anti-sense with regard to a PDE4D mRNA or gene sequence) can be used to investigate role of PDE4D in developmental events, as well as the normal cellular function of PDE4D in adult tissue. Such techniques can be utilized in cell culture, but can also be used in the creation of transgenic animals.

In yet another embodiment of the invention, other PDE4D therapeutic agents as described herein can also be used in the treatment or prevention of stroke. The therapeutic agents can be delivered in a composition, as described above, or by themselves. They can be administered systemically, or can be targeted to a particular tissue. The therapeutic agents can be produced by a variety of means, including chemical synthesis; recombinant production; *in vivo* production (e.g., a transgenic animal, such as U.S. Pat. No. 4,873,316 to Meade *et al.*), for example, and can be isolated using standard means such as those described herein.

A combination of any of the above methods of treatment (e.g., administration of non-mutant PDE4D polypeptide in conjunction with antisense therapy targeting mutant PDE4D mRNA; administration of a first splicing variant encoded by PDE4D

in conjunction with antisense therapy targeting a second splicing encoded by PDE4D), can also be used.

The invention will be further described by the following non-limiting examples. The teachings of all publications cited herein are incorporated herein by reference in their entirety.

EXAMPLES

EXAMPLE 1 IDENTIFICATION OF THE PDE4D GENE WITH LINKAGE TO STROKE

Icelandic Stroke Patients and Phenotype Characterization

A population-based list containing 2543 Icelandic stroke patients, diagnosed from 1993 through 1997, was derived from two major hospitals in Iceland and the Icelandic Heart Association (the study was approved by the Icelandic Data Protection Commission of Iceland and the National Bioethics Committee). Patients with hemorrhagic stroke represented 6% of all patients (patients with the Icelandic type of hereditary cerebral hemorrhage with amyloidosis and patients with subarachnoid hemorrhage were excluded). Ischemic stroke accounted for 67% of the total patients and TIAs 27%. The distribution of stroke suptypes in this study is similar to that reported in other Caucasian populations (Mohr, J.P., *et al., Neurology, 28*:754-762 (1978); L. R. Caplan, *In Stroke, A Clinical Approach* (Butterworth-Heinemann, Stoneham, MA, ed 3, (1993)).

The list of approximately 2000 living patients was run through our computerized genealogy database. A comprehensive genealogy database that has been established at deCODE genetics, Inc. was used to cluster the patients in pedigrees. Each version of the computerized genealogy database is reversibly encrypted by the Data Protection Commission of Iceland before arriving at the laboratory (Gulcher, J.R., *et al., Eur. J. Hum. Genet. 8*:739 (2000)). The database uses a patient list, with encrypted personal identifiers, as input, and recursive algorithms to find all ancestors in the database who are related to any member on the

input list within a given number of generations back (Gulcher, J.R., and Stefansson, K., *Clin. Chem. Lab. Med. 36*:523 (1998)) covering the whole Icelandic nation. The cluster function then searches for ancestors who are common to any two or more members of the input list. One hundred and seventy-nine families with two or more living patients were chosen for the study with a total of 476 patients connected within 6 meioses (6 meioses connect second cousins). Informed consent was obtained from all patients and their relatives whose DNA samples were used in the linkage scan. The mean separation between affected pairs is 4.8 meioses. Of the patients selected for the study 73% had ischemic strokes, 23% TIAs and 4% hemorrhagic strokes.

In the selected families, hemorrhagic stroke patients clustered with ischemic stroke and TIA patients, and there were no families with a striking preponderance of hemorrhagic stroke or of the subtypes of ischemic stroke. Patients with ischemic stroke were reclassified according to the TOAST (Trial of Org 10172 in Acute Stroke Treatment) sub-classification system for stroke (Adams, H.P., Jr., *et al., Stroke, 24*:34-41 (1993)). This system includes five categories: (1) large-artery atherosclerosis, (2) cardioembolism, (3) small-artery occlusion (lacune), (4) stroke of other determined etiology and (5) stroke of undetermined etiology. The diagnoses were based on clinical features and on data from ancillary diagnostic studies. Patients defined with large-artery atherosclerosis had clinical and brain imaging findings of cerebral cortical dysfunction and either significant (>70%) stenosis (this is a stricter criteria than used in TOAST where 50% stenosis is the cut-off) or occlusion of a major brain artery or branch cortical artery. Potential sources of cardiogenic embolism were excluded. The category cardioembolism included patients with at least one cardiac source for an embolus and potential large-artery sources of thromobosis and embolism was eliminated. Patients with small-artery occlusion had one of the traditional clinical lacunar syndromes and no evidence of cerebral cortical dysfunction. Potential cardiac source of embolus and stenosis >70% in an ipsilateral extracranial artery was excluded. The category, acute stroke of other determined etiology, included patients with rare causes of stroke and patients with two or more potential causes of stroke. If the causes of stroke could

not be determined despite extensive evaluation patients were included in the category stroke of undetermined etiology. Fig. 1A and Fig. 1B display two pedigrees each affected by several of the stroke subtypes, including hemorrhagic stroke. Apparently what is inherited in stroke is the broadly defined phenotype.

Genome-wide scan

A genome-wide scan was performed using a framework map of about 1000 microsatellite markers. The DNA samples were genotyped using approximately 1000 fluorescently labelled primers. A microsatellite screening set based in part on the ABI Linkage Marker (v2) screening set and the ABI Linkage Marker (v2) intercalating set in combination with 500 custom-made markers were developed. All markers were extensively tested for robustness, ease of scoring, and efficiency in 4X multiplex PCR reactions. In the framework marker set, the average spacing between markers was approximately 4 cM with no gaps larger than 10 cM. Marker positions were obtained from the Marshfield map (*http://research.marshfieldclinic.org/genetics*) except for a three-marker putative inversion on chromosome 8 (Jonsdottir, G.M., *et al., Am. J. Hum. Genet., 67 (Suppl. 2)*:332 (2000); Yu, A., *et al., Am. J. Hum. Genet.. 67 (Suppl. 2)*:10 (2000). The PCR amplifications were set up, run and pooled on Perkin Elmer/Applied Biosystems 877 Integrated Catalyst Thermocyclers with a similar protocol for each marker. The reaction volume used was 5 µl and for each PCR reaction 20 ng of genomic DNA was amplified in the presence of 2 pmol of each primer, 0.25 U AMPLITAQ GOLD (DNA polymerase; trademark of Roche Molecular Systems), 0.2 mM dNTPs and 2.5 mM MgCl2 (buffer was supplied by manufacturer). The PCR conditions used were 95°C for 10 minutes, then 37 cycles of 15 s at 94°C, 30s at 55°C and 1 min at 72°C. The PCR products were supplemented with the internal size standard and the pools were separated and detected on Applied Biosystems model 377 Sequencer using v3.0 GENESCAN (peak calling software; trademark of Applied Biosystems). Alleles were called automatically with the TRUEALLELE (computer program for alleles identification; trademark of Cybegenetics, Inc.) program (*www.cybgen.com*), and the program, DECODE-GT (computer editing program that works downstream

of the TRUEALLELE program; trademark of deCODE genetics, Inc.), was used to fractionate according to quality and edit the called genotypes (Palsson, B., *et al., Genome Res. 9*:1002 (1999)). At least 180 Icelandic controls were genotyped to derive allelic frequencies.

A total of 476 patients and 438 relatives were genotyped. The data was analyzed and the statistical significance determined by applying affecteds-only allele-sharing methods (which does not specify any particular inheritance model) implemented in the ALLEGRO (computer program for multipoint linkage analysis; trademark of deCODE genetics, Inc.) program which calculates lod scores based on multipoint calculations. Our baseline linkage analysis uses the S_{pairs} scoring function (Kruglyak, L., *et al., Am. J. Hum. Genet., 58*:1347 (1996)), the exponential allele-sharing model (Kong, A. and Cox, N.J., *Am. J. Hum. Genet., 61*:1179 (1997)), and a family weighting scheme which is halfway, on the log scale, between weighting each affected pair equally and weighting each family equally. In the analysis we treat all genotyped individuals who are not affected as "unknown". All linkage analyses in this paper were performed using multipoint calculation with the program ALLEGRO (deCODE genetics, Inc.) (Gudbjartsson, D.F., *et al., Nat. Genet. 25*:12 (2000)).

The allele sharing lod scores for the genome scan using the framework map showed three regions that achieved a lod score above 1.0. Two of these regions are on chromosome 5q. The first peak is at approximately 69 cM with a lod score of 2.00. The second peak is at 99 cM with a lod score of 1.14. The third region is on chromosome 14q at 55 cM with a lod score of 1.24.

The information for linkage at the 5q locus was increased by genotyping an additional 45 markers over a 45 cM segment which spanned both peaks. The information used here is defined by Nicolae (D. L. Nicolae, Thesis, University of Chicago (1999)) and has been demonstrated to be asymptotically equivalent to a classical measure of the fraction of missing information (Dempster, A.P., *et al., J. R. Statist. Soc. B, 39*:1 (1977)). While the lod score at the second peak dropped slightly to around 1.05, the lod score at the first peak increased to 3.39. However, close inspection of our results suggested that not only does the Marshfield genetic map

(*http://research.marshfieldclinic.org/genetics*) lack resolution (many markers assigned the same map location), but also there may be some errors in their order. As a result, the genetic length of the region estimated using our material was substantially greater than what is reported. By modifying the ALLEGRO (deCODE genetics, Inc.) program, we applied the EM algorithm to our data to estimate the genetic distances between markers. We found that our estimate of the genetic length of the region was substantially longer than that given in the Marshfield map. This indicates a problem with marker order because, in general, incorrect marker order leads to an increased number of apparent crossovers and increases the apparent genetic length.

Physical and genetic mapping

The marker order and inter-marker distances were improved by constructing high density physical and genetic maps over a 20 cM region between markers D5S474 and D5S2046. A combination of data from coincident hybridizations of BAC membranes using a high density of STSs and the Fingerprinting Contig database was used to build large contigs of BACs from the RPCI -11 library. The order of the linkage markers was also confirmed by high-resolution genetic mapping using the stroke families supplemented with over 112 other large nuclear families (Fig. 3). High resolution genetic mapping was used both to anchor and place in order contigs found by physical mapping as well as to obtain accurate inter-marker distances for the correctly ordered markers. Data from 112 Icelandic nuclear families (sibships with their parents, containing from two to seven siblings) were analyzed together with the nuclear families available within the stroke pedigrees. For the purpose of genetic mapping the 112 nuclear families alone provide 588 meioses, and the total number of meioses available for mapping was over 2000. By comparison, the Marshfield genetic map was constructed based on 182 meioses. The large number of meiotic events within our families provides the ability to map markers to the resolution of 0.5 to 1.0 cM. Combining this information with the physical map resulted in a highly reliable order of markers and inter-marker distances within this 20 cM region. Linkage markers common to the genetic and

physical maps were used to anchor and place in order four of the physically mapped contigs. By integrating the genetic and physical maps a most likely order of 30 polymorphic markers was derived (Fig. 3).

BAC contigs were generated by a method that combines coincident primer hybridization with data mining. The RPCI-11 human male BAC library segments 1 & 2 (Pieter de Jong, Children's Hospital Oakland Research Institute) containing about 200,000 clones with a 12X coverage, were gridded using a 6x6 double offset pattern in 23 cm x 23 cm membranes with a BioGrid robot (Biorobotics Ltd., Cambridge, UK). Initially, hybridizations were performed with markers in the region of interest according to their location in the Weizmann Institute Unified Database (*http://bioinformatics.weizmann.ac.il/udb/*). Primer sequences were analyzed and discarded according to their content of known repeats, *E. coli* and vector sequences (the analysis was performed using software developed at deCODE genetics). One hundred and fifty markers in the region (30 polymorphic markers used in linkage and 120 generated from STSs) separated by an average of 130 kb were used. The selected markers were used to generate two ^{32}P labelled probes, F that contained the pooled forward primers and R that contained the pooled reverse primers. Reading of positive signals was performed automatically from digitized images of resulting autoradiograms by informatics tools developed at deCODE genetics. The coincident signals in both hybridizations were selected as positive clones. A set of overlapping clones was assembled through a combination of hybridization and BAC fingerprint walking. Fingerprints of positive clones were analyzed using the FPC database developed at the Sanger Center. Data from FPC contigs prebuilt with a cutoff of 3e-12 and from sequence datamining was integrated with the hybridization results. BACs in the region detected by data mining and hybridization were re-arrayed using a Multiprobe IIex robot (Packard, Meriden, CT). Small membranes (8 cm x 12 cm) were gridded in 6x6 double offset pattern and individually hybridized with the markers of interest. Positive patterns were transferred using transparencies to an Excel file containing macros to provide BAC to marker associations. A visual map was generated by combining the hybridization, fingerprinting and sequence data. New markers were generated from BAC end

sequences to close the gap. After several rounds of hybridization positive BACs were assembled into 7 contigs covering approximately 20 Mb. Thirty of the polymorphic markers used in linkage were assigned to four of the contigs (Fig. 3). Estimation of contig lengths and distance between markers assigned to them was based on the FPC program.

Twenty - seven of our 30 linkage markers mapped to three contigs in the October 2000 release from UCSC, the UC Santa Cruz (UCSC) draft assembly (http://genome.ucsc.edu/). The marker order within the contigs is in agreement with our order with the exception of two markers. Although the UCSC assemblies are improving, some contigs have incorrect order, orientation, or contig assembly. We believe that high resolution genetic mapping and perhaps focused hybridization experiments are still necessary to confirm accuracy of sequence assemblies. In addition, high resolution genetic mapping provides better estimates of inter-marker genetic distances that are also important for linkage analysis (Halpern, J. and Whittermore, A.S., *Hum. Hered. 49*:194 (1999); Daw, E.W., *et al.*, *Genet. Epidemiol. 19*:366 (2000)).

Final linkage results and localization

Linkage analysis including genotypes from the higher density markers using the deCODE marker order resulted in a lod score of 4.40 ($P = 3.9 \times 10^{-6}$) on chromosome 5q12 at the marker D5S2080. The reported P value is part of the output of the ALLEGRO (deCODE genetics, Inc.) program. It is obtained by comparing the observed lod score to the distribution of the lod score calculated under the null hypothesis of no linkage and the assumption that the descent information is complete. In this case, it agrees very well with the P value that one would obtain by large sample approximation. The allele sharing lod score is the log, base 10, of an one-degree of freedom likelihood ratio. Hence, with a one-sided test, a lod score of 4.03 corresponds to a Z score of $\text{sqrt}(2*\log(10)*4.03) = 4.31$. Normal approximation gives a P value of $8.2 * 10^{-6}$. The locus has been designated as *STRK1*. With the addition of these extra markers, it was possible to narrow down the region to a segment less than 6 cM, from D5S1474 to D5S398, as defined by one

drop in lod. Analyses using the marker orders based on publicly available marker maps gave lower lod scores, ranging from 2.78 to 3.94.

To further investigate the contribution of this susceptibility locus to stroke, a range of parametric models were fitted to the data. However, all analyses were still *affecteds only* in the sense that individuals were either classified as affecteds or having unknown disease status. A lod score of 4.08 was obtained with a dominant model where the allele frequency of the susceptibility gene was assumed to be 5% and carriers of the mutation were assumed to have seven-fold the risk of a non-carrier. By inspecting the individual families, no obvious correlation was seen between families which contribute positively to the linkage results with the prevalence of hypertension, diabetes or hyperlipidemias. When the data were reanalyzed with the hemorrhagic stroke patients removed, the allele sharing lod score increased to 4.86 at D5S2080. Although this 0.46 increase in log score suggests that *STRK1* is involved primarily in ischemic stroke and TIAs, it is not statistically significant based on simulations (one sided P equals 0.09). In order to assess whether such a change in lod score would be likely to occur by chance we selected 1000 random sets of 22 patients whose status we then changed to "unknown" in an analysis. The P value we present is the fraction of the 1000 simulations which produce a lod score increase at the peak locus equal to or greater than that which we observed by changing the affection status of the 22 hemorrhagic stroke patients to "unknown".

Identification of Allelic Association

All microsatellite markers in the approx. 6 cM interval (Fig. 3, markers from D5S398 to D5S1474) were analysed with respect to allelic association.

Table 1. The association of a fixed allele, with the stroke patients compared with population controls.

Marker	Location (cM)	Allele (A)	p-value	Risk ratio	Total no. of patients	Patients with A	Total no. of controls	Controls with A
AC022125-3	68.3	0	2.83e-03	1.28	749	412	504	251
D5S2000	68.5	0	3.26e-03	1.27	717	302	555	196
D5S2091	68.6	0	5.44e-04	1.30	757	342	534	198
D17-C	68.8	0	1.91e-03	1.34	721	436	469	249
D17-B	68.9	0	1.30e-03	1.26	680	556	509	387
AC008818-1	72.7	0	3.26e-03	1.42	739	379	619	259
D5S1990	73.9	20	3.68e-03	1.68	756	75	623	36

Comment:
The alleles have conventional values resulting after subtracting the CEPH data.

Identification of Microsatellite and SNP Haplotypes Within the Gene

Fig. 5 shows a schematic representation of the genetic map showing microsatellite and SNP haplotypes in the region of the stroke gene. Seven haplotypes are shown from the association study of Icelandic patients (804 patients). The haplotypes indicated as SW-1 and SW-2 are from an association study on Swedish stroke patients.

A total number of 804 Icelandic patients were analyzed for microsatellite single marker and multimarker association. The number of controls used in the analysis was 504. Each patient had 2 or more close relatives genotyped in order to derive haplotypes. The haplotypes were derived using ALLEGRO based haplotype analysis (results shown in Table 2).

Table 2
Icelandic Patient Association

Markers	Alleles	pAllelic	All Frq Aff	All Frq Ctrl	pCarrier	Carr Frq Aff	Carr Frq Ctrl	# aff	# ctrl
All patients (n=804)									
D5S2000	0	1.12E-04	0.24	0.18	5.36E-04	0.43	0.33	744	429
D5S2091	0	5.28E-04	0.26	0.21	6.10E-04	0.46	0.37	770	478
AC022125-3	0	5.96E-04	0.33	0.27	3.24E-04	0.55	0.45	774	489
D17-C	0	9.93E-04	0.36	0.29	0.007	0.6	0.52	756	395
AC008833-6	0	0.0013	0.67	0.61	0.018	0.88	0.84	781	472
AC008818-1	0	0.0014	0.29	0.24	7.13E-04	0.51	0.41	773	482
AC008829-5	2	0.0063	0.03	0.015	0.005	0.06	0.03	645	474
(1) D5S2000 D5S2091 D17-C D17-B	0000	0.0018	0.17	0.11	0.004	0.3	0.22	552	325
(2) D5S2091 D17-C D17-B	000	9.06E-04	0.19	0.13	0.001	0.34	0.25	597	380
(3) AC008829-5 AC008833-2 AC008833-3	20 14 6	0.0017	0.01	0.002	0.002	0.029	0.004	579	431
(4) AC022125-3 AC008833-6 D5S2000 D5S2091 D17-C	00000	0.00374	0.17	0.13	0.012	0.32	0.24	629	317
(5) D5S2071 AC008879-2 AC008818-1 AC008879-3	-2 0 0 0	0.0031	0.05	0.02	0.004	0.09	0.044	489	362
(6) AC008879-2 AC008818-1 AC008879-3	0 0 0	9.25E-04	0.29	0.23	5.82E-04	0.5	0.4	621	443
(part 7) D5S2107 AC008829-5 AC008833-2	4 2 0	0.0097	0.007	0	0.009	0.01	0	540	422

Swedish patients have also been genotyped and microsatellite single and multimarker association has been analyzed using the E-M algorithm. A total number of 943 Swedish patients (stroke patients and patients with carotid stenosis) and 322 Swedish controls were analyzed (results shown in Table 3).

Table 3
Swedish Patient Association

Markers	Alleles	pAllelic	All Frq Aff	All Frq Ctrl	# aff	# ctrl
Swedish patients (n=943)						
D5S2000	2	2.39E-03			912	318
(Sw 2) AC022125-3 AC008833-6 D5S2000 D5S2091	0 0 2 0	6.0E-03	0.035	0.014	717	284
(Sw-1) AC008804-2 D17-H D17-G D5S2080	-2 4 -2 10	2.8E-03	0.057	0.053	672	113
AC008804-2 D17-H D17-G	-4 0 -2	3.7E-03	0.056	0.033	700	123

SNP haplotypes within the PDE4D gene have been identified. A total of 95 SNP's typed for approximately 500 patients and 140 controls and E-M algorithm was used to analyze the genotype (results shown in Table 4). Selected SNP's found in excess in patients (based on the E-M algorithm) were typed for a subset of relatives in order to derive haplotypes for haplotype analysis (results are shown in Table 5). SNP haplotypes 1 and 2 are located upstream of D6 exon, SNP haplotype 3 is located upstream of D8 exon and stretches over it, SNP haplotype 4 stretches over LF1 exon.

Table 4
SNP genotype analysis based E-M algorithm

SNP haplotype	Position	Alleles in Haploytpe	pAllelic	All Frq Aff	All Frq Ctrl	#Aff	#Ctrl
SNP-1	1273143-1269965	122303	9.9E-03	0.32	0.25	505	155
SNP-2	1260358-1254849	10323	2.8E-02	0.33	0.26	631	131
SNP-3	1399767-1318510	2313002	8.9E-03	0.26	0.18	759	149
SNP-4	1422008-1410824	111330	3E-02	0.56	0.48	344	128

Table 5A
SNP haplotype analysis

SNP haplo-type	Position	Alleles in haplo-type	pAllelic	All Frq Aff	All Frq Ctrl	Carr Frq Aff	Carr Frq Ctrl	# Aff	# Ctrl
SNP-1	1273143-1269965	122303	4.27E-04	0.31	0.18	0.49	0.308	111	149
SNP-2	1260358-1254849	10323	0.0043	0.32	0.2	0.508	0.35	114	128

Table 5B
SNPs in the identified SNP haplotypes

Haplotype	SNP	Public name if available	Polymorpism	position	Allele
SNP-2	1	new	T/C	1254849	3
SNP-2	2	new	A/G	1257206	2
SNP-2	3	TSC0538885	T/C	1257624	3
SNP-2	4	new	A/C	1259581	0
SNP-2	5	rs244579	T/C	1260358	1
SNP1	1	rs35284	T/C	1269965	3
SNP1	2	rs35283	A/G	1270041	0
SNP1	3	rs35281	A/G	1270553	3
SNP1	4	rs35280	G/A	1272125	2
SNP1	5	new	A/G	1272910	2
SNP1	6	rs35279	G/C	1273143	1
SNP3	1	rs255652	A/G	1318510	2
SNP3	2	rs27547	G/A	1371388	0
SNP3	3	rs26695	G/A	1390407	0
SNP3	4	rs27773	C/T	1391020	3
SNP3	5	rs1471430	C/G	1391818	1
SNP3	6	rs26705	C/T	1392198	3
SNP3	7	rs26701	G/C	1399767	2
SNP4	1	rs464311	A/G	1410824	0
SNP4	2	rs1867725	T/C	1412604	3
SNP4	3	rs153966	T/C	1414091	3
SNP4	4	new	C/T	1414804	1

Table 6A and 6B show previously known microsatellite markers and novel microsatellites in sequence. Forward and reverse primers are shown.

Table 6A Previously Known microsatellite markers in sequence

	Accession number	Forward primer	SEQ ID NO.	Reverse primer	SEQ ID NO.
D5S2107	GDB:614475	AGCCTTTGGGCCAACA	15	CAAACCAACAGGAGTATGTACTTTT	16
D5S468	GDB:593646	AAATGAATGGTAGATTTAACCTGAG	17	TGGGAAAATAAATACATGCG	18
D5S2000	GDB:608769	TTATACCAGGAGAGTAGACTTTTTT	19	CATGCTAATTTCAAATATGAGAG	20
D5S2091	GDB:613806	GCATTTGTCATGTGCCA	21	GGTATTTCATTCACAGCCAGTC	22
D5S2500	GDB:683034	TTAAAGGAGTGATCTCCCCC	23	GTTACAGTACCTATGGTCATGCC	24
D5S2080	GDB:613188	GCACTGTGAATTTCAAATG	25	GTCAGGGGACTGGGAT	26
D5S2018	GDB:609957	CCTGTAAACAATGAAAACCCACTGA	27	AGACTATGCTGTGTGTGTGCCTG	28
D5S2071	GDB:612756	TCTGGGTTTACAACCTTCAAA	29	TAACTGGCTTGGCCCG	30

Table 6B Novel microsatellites in sequence:

	Forward primer	SEQ ID NO.	Reverse primer	SEQ ID NO.
DG5S382	CAGTAAATAGTTTGCTTCAGGCATT	31	CTCATACTCTGCGTGGCTTG	32
AC008829-5	AGGGCTAAGTGGATCACAGC	33	AGAGGGTCTTGCCACTGTGT	34
AC008833-2	TCTGCAAGACTCTCGGTGCT	35	TGCAGATCTCATATTTCCATGTTT	36
AC008833-3	TCTGCCCTTTGTTCCTCATC	37	GTCAAGGGAGTGATGGCAGT	38
AC022125-3	AAAATGACTGCCTCCCACAA	39	GGGAAATCATACTGCCCTCA	40
AC008833-6	AAACATAGCCACCCTGTTGC	41	TCCAAAGCCCTTAGCTTAATCA	42
D17-C	GCTCCCTGGACTGTGGTAAA	43	GCCACATTGCTGTCACATTT	44
D17-B	TTTTTCAGGGCTGGGTAGAA	45	TCCAAAGGAAGTGAAATCAGTG	46
D17-D	CTAACCCATCCTCACCCAAT	47	TGTGGCATACAGGGAAGTGA	48
AC008804-1	GTGCTGGAATTTGGCTCCTA	49	CAAACATCATTTTGCCTTGC	50
AC008804-2	TCCCAAACGATAGCTGTTGC	51	GAATTAGGACGGTGGCTCAA	52
AC008804-3	TTTGCATTCATCACTCATTCG	53	CCCGTAGCATCTGATCCAGT	54
D17-H	AGAAAGCTTCCCCTCCACTG	55	CATTCCAGCCTGAGCTACAA	56
D17-G	TGGGCTCCAATTATCCTTCC	57	TGCAGTTTGCACTCTCCTTG	58
AC027322-12	TTATCTGTTCCCCATGCTTTT	59	TGTTACATCTTGATCTATGACGTTT	60
AC027322-10	TGTATCCTGCATCCCTTGTT	61	GGAATAACCCAAAAGTAATTGTAGTGA	62
AC027322-9	TCGTGCCAAGATGAAAATGA	63	AAACCTCCCTGATCATCTGAA	64
AC027322-8	ACAGAGGAGCAAAGGAATCA	65	TTGGCACGAATCACTCTCTG	66
AC027322-3	CCCCATTTGGATGATGGTAA	67	TGAGAACATCTAACGTCTTTTTCAA	68
AC027322-5	GGCACAGATAACTGGGAAGC	69	CCCCCAAAAGTACTGCATAAA	70
DG5S397	ATGTTGGCATTTGGTGAGGT	71	CACCTGTCCCTTTGGAGGTA	72
AC008879-2	TTTTAAACGTGAAAAGTACAAGTTGC	73	ACAAAGAGCACCTTTCCAGTG	74
AC008818-1	TGCTTGGTGAAGGAATAGCC	75	GAGCCTGGGTTCTCAGGAAT	76
AC008879-3	GGCAAGAACAGTTTGGAGGA	77	GACTGCTGTTTGCTGGTTGA	78
AC020733-1	AAATGGCTATAAAGTGCTTTGAAC	79	CGGTCTCAACAACCAGAACA	80
AC016591-2	CAGAAACACACAGAAGTCATTCAA	81	CAGACCCAATTAATGGCAAAA	82
DG5S405	TCTGTCTTCTTTGACCCATGAAT	83	CAACACAGCGAGACCTCATC	84

Discussion of Stroke Locus Identification

Genealogy, a comprehensive population based list of broadly defined stroke patients and non-parametric allele sharing methods have been combined to successfully map a major gene for one of the most complex diseases known. There was no correlation between the contribution of the families to the locus and hypertension, diabetes or hyperlipidemias and this locus does not match any known gene contributing to these risk factors. The types of stroke studied in this work do not reflect a rare or Icelandic-specific form of stroke; rather, the diversity of the stroke phenotypes in Icelanders as well as risk factors are similar to those of most other Caucasian populations (Agnarsson, U., *et al., Ann. Intern. Med., 130*:987 (1999); Eliasson, J.H., *et al., Læknablaðið, 85*:517-25 (1999); Sveinbjörnsdottir, S., *et al.*, Systematic registration of patients with Stroke and TIA admitted to The National University Hospital, Reykjavik, Iceland, in 1997, XIII. Meeting of the Icelandic Association in Internal Medicine, Akureyri, Iceland (Læknabladid, 1998); Valdimarsson, E.M., *et al., Læknabladid 84*:921 (1998)).

The known genetic factors contributing to common stroke may do so indirectly by increasing the risk of some of its risk factors such as diabetes, hyperlipidemias, and hypertension. It is possible that there are genetic factors for stroke that do not influence susceptibility to the known risk factors, as has been suggested by epidemiologic studies for myocardial infarction (Friedlander, Y., *et al., Br. Heart J., 53*:382 (1985); Shea, S., *et al., J. Am. Coll. Cardiol., 4*:793 (1984); Myers, R.H., *et al., Am. Heart J., 120*:963 (1990)). Epidemiological studies of the common forms of stroke have given conflicting results regarding the role of family history. Some studies have shown that parental history predicts the risk of stroke independently from conventional risk factors (Liao, D., *et al., Stroke, 28*:1908 (1997); Jousilahti, P., *et al., Stroke, 28*:1361 (1997)) whereas others have failed to find evidence for such independent factors (Graffagnino, C., *Stroke, 25*:1599 (1994); Kiely, D.K., *et al., Stroke, 24*:1366 (1993); Lindenstrom, E., *et al., Neuroepidemiology, 12*:37 (1993).

The work described herein is the first reported genome scan searching for genes that contribute to stroke as defined as a public health problem. The data reported herein suggests that the mapped gene contributes directly to stroke without contributing indirectly through its known risk factors. This suggests that there may be other biological pathways contributing to the pathogenesis of stroke.

EXAMPLE 2 IDENTIFICATION OF THE PDE4D GENE

Sequence of the Candidate Region

We have sequenced approximately 3 Mb of the area defined by one drop in lod (Fig. 3, the genetic map of the region). The BAC (bacterial artificial clones) sequenced in house are shown in Table 7A. We also used for the assembly the following publicly available BAC sequences from GenBank listed in Table 7B for the assembly. The BAC clones we sequenced are from the RCPI-11 Human BAC library (Pieter deJong, Roswell Park). The vector used was pBACe3.6. The clones were picked into a 94 well microtiter plate containing LB/chloramphenicol (25 µg/ml)/glycerol (7.5%) and stored at -80°C after a single colony has been positively identified through sequencing. The clones can then be streaked out on a LB agar plate with the appropriate antibiotic, chloramphenicol (25 µg/ml)/sucrose (5%).

Table 7A

Sequenced at Decode (BAC name)	Comment	Accession number
RP11-621C19	1	AC020733
RP11-113C1	2	
RP11-412M9	2	
RP11-151G2	2	
RP11-151F7	2	
RP11-281M3	2	
RP11-421L6	2	
RP11-68E13	2	
RP11-379P8	2	
RP11-1A7	1	AC008111
RP11-422K3	2	
RP11-116A3	2	

Key to "Comment" column:

1= This BAC has a publicly available sequence,

it was sequenced at Decode to make sure the sequence was correct

2= Only BAC end-sequence available for this BAC publicly.

Table 7B

Sequences available from GenBank (BAC name)	Accession number	Status of sequence
RP11-621C19	AC020733	17 unordered pieces
CTD-2003D5	AC016591	complete sequence
CTD-2210C1	AC008879	7 unordered pieces
CTD-2124H11	AC008818	complete sequence
CTD-2301A11	AC008934	complete sequence
RP11-16B11	AC011929	7 unordered pieces
CTC-261E10	AC026693	complete sequence
CTD-2027G10	AC027322	complete sequence
RP11-1A7	AC008111	8 unordered pieces
CTD-2122K7	AC012315	complete sequence
CTD-2085F10	AC008804	complete sequence
CTD-2040J22	AC008791	complete sequence
RP11-235N16	AC020975	16 ordered pieces
CTD-2146O16	AC008833	complete sequence
CTD-2084I4	AC022125	17 ordered pieces
CTD-2140K22	AC008829	26 ordered pieces
CTD-2124D11	AC020924	7 ordered pieces
RP11-731H6	AC026095	21 unordered pieces

Gene identification

The gene, human cAMP specific phosphodiesterase 4D (HPDE4D) was identified in the sequenced region (Fig. 3). Twenty-three exons have been identified,

eighteen of those have previously been published. See top of Fig. 4. Five new spliced exons have been identified (referred to as 4D6, 4D7-1, 4D7-2, 4D7-3 and 4D8) in three new isoforms (PDE4D6, PDE4D7 and PDE4D8). The genomic sequence is approximately 1,691,140 bases in length.

The exon locations are indicated in Table 8 below.

Table 8

Exon	Start	End
(New) 4D7-1	142207	142328
(New) 4D7-2	444645	444775
(New) 4D7-3	641649	641878
4D4	736254	737226
4D5	861791	862202
4D3	1044051	1044190
(New) 4D6	1273404	1273709
(New) 4D8	1354347	1355128
LF1	1414511	1414702
LF2	1436943	1436979
LF3	1472965	1473235
LF4	1449835	1449542
N3	1539259	1539302
4D1/D2	1591172	1591425
ex3	1636944	1637037
ex4	1638406	1638578
ex5	1639508	1639606
ex6	1640491	1640655
ex7	1641818	1641917
ex8	1653070	1653224
ex9	1653943	1654065
ex10	1654576	1654758
ex11	1655335	1655747

The markers showing the highest association are located within the PDE4D (Table 1, Fig. 3 and Table 5), as follows:

AC022125-3, 21 000 bp upstream of the LF1 exon

D5S2000, 37 000 bp downstream of PDE4D6 exon

D5S2091, 30 000 bp downstream of PDE4D6 exon

D17-C, 21 000 bp upstream of PDE4D6 exon

D17-B, 31 000 bp upstream of PDE4D6 exon

AC008833-6, 35 000 bp downstream of PDE4D8 exon

AC008818-1, 3000 pb upstream of PDE4D7-1 exon

AC008829-5, 89 000 bp upstream of PDE4D1/D2 exon

Haplotype (1) and (2) are located upstream of and stretch over the PDE4D6 exon

Haplotype (3) is located upstream of and stretches over the LF2-LF4 exons

Haplotype (4) stretches over PDE4D6 and PDE4D8 exons

Haplotype (5) stretches over PDE4D7-1 to PDE4D7-3 exons

Haplotype (6) stretches over PDE4D7-1 exon

Haplotype (7) stretches over LF2-exons 11

A contig for the incomplete genomic sequence of the PDE4D gene was submitted in November 2000 (GenBank entry NT_023193 by International Human Genome Project collaborators). The size of the contig is 614 481 bp (including gaps) whereas our genomic sequence for the whole PDE4D region (i.e., from the first exon for PDE4D variant) is close to 1,700,000 bp. The contig NT_023193 comprises only 11 exons of the PDE4D gene (in Fig. 4, exons 4D1/D2 - 11) and the 5' differently spliced exons are missing in the contig (in Fig. 4, exons 4D4, 4D5, 4D3, 4D6, 4D8, 4D7-1, 4D7-2, 4D7-3, LF1, LF2, LF3 and LF4).

SNPs (single nucleotide polymorphisms) detected in the sequence and mutation analysis

Publically available and novel SNP's in the PDE4D2 gene from mutation screening of all exons are illustrated in Tables 9 and 10.

Gene Identification

The identified gene PDE4D is a member of the cyclic nucleotide phosphodiesterases (PDEs). Intracellular levels of cyclic AMP and cyclic GMP are mediated by the PDEs. Cyclic nucleotides are important second messengers that regulate and mediate a number of cellular responses to extracellular signals, such as hormones, light and neurotransmitters. Intracellular levels of cAMP play a key role in the function of inflammatory and immune cells. One of the mechanisms that mediate relaxation of vascular muscle in cerebral circulation is the production of cAMP.

PDE4D Structure and Splice Forms

Phosphodiesterases are the mammalian homolog of the "dunce" gene in *Drosophila melanogaster*, implicated in learning and memory (Davis, R.L. and B. Dauwalder, *Trends Genet., 7(7)*:224-229 (1991)). PDEs are members of a large superfamily of isoenzymes subdivided into 9 and possibily 10 distinct families (Conti, M. and S.L. Jin, *Prog. Nucleic Acid Res. Mol. Biol., 63*:1-38 (1999)), with several genes in each family and more than one isoform for each gene. The significance of the diversity of PDEs is not known but many of the isoforms differ in their biochemical properties, phosphorylation, intracellular targeting, protein-protein interactions and patterns of expression in tissues, which suggests that each of the various isoforms might have distinct functions (Bolger, G.B., *Cell Signal, 6(8)*:851-859 (1994); Conti, M., *et al., Endocr. Rev., 16(3)*:370-378 (1995)).

There are four genes that encode the type 5 PDEs (PDE4A, PDE4B, PDE4C and PDE4D), which is a group of enzymes characterized by high affinity for cAMP. The gene for PDE4D was assigned to human chromosome 5q12 (Milatovich, A., *et al., Somat. Cell Mol. Genet., 20(2)*:75-86 (1994); Szpirer, C., *et al., Cytogenet. Cell Genet., 69(1-2)*:22-14 (1995)) and 5 distinct splice variants have been characterized (the short forms PDE4D1, PDE4D2 and the long forms PDE4D3, PDE4D4, and PDE4D5) (Bolger, G.B., *et al., Biochem. J., 328(Pt.2)*:539-548 (1997)) (Fig. 4). The sequence of

the human PDE4D variants show a high degree of homology to the PDE4Ds expressed in mouse and rat. The pattern of splicing and different promoter usage is highly conserved during evolution indicating an important physiological role (Nemoz, G., et al., *FEBS Lett., 384(1)*:97-102 (1996)). The PDE4D variants are generated at two major boundaries present in the gene. The first boundary corresponds to the junction of exon 2. Differential splicing in this region generates the 2 short variants PDE4D1 (586 a.a.) and PDE4D2 (508 a.a.)(Fig. 4). This splicing boundary is conserved in mouse, rat and between different human PDE4 genes. The splicing variant PDE4D2 is generated by the removal of 256 bp from the PDE4D1 sequence. The initiation codon in the PDE4D2 variant lies within exon D1/D2. Data demonstrates that the expression of the short PDE4D variants is under the control of an internal promoter regulated by cAMP (Vicini, E. and M. Conti, *Mol. Endocrinol., 11(7)*:839-850 (1997)). The second major splicing boundary is also conserved during evolution and is identical to that described in the *Drosophila* dunce gene. Splicing occurs at the intron/exon boundary at the LF1 exon (Fig. 4).

PDE function

The PDEs serve at least four major functions in the cell. They can (1) act as effector of signal transduction by interacting with receptors and G-proteins; (2) integrate the cyclic nucleotide-dependent pathway with other signal transduction pathways; (3) function as homeostatic regulators, playing a role in feedback mechanisms controlling cyclic nucleotide levels during hormone and neurotransmitter stimulation; (4) play an important role in controlling the diffusion of cyclic nucleotides and in creating subcellular domains or channeling cyclic nucleotide signaling (Conti, M. and S.L. Jin, *Prog. Nucleic Acid Res. Mol Biol., 63*:1-38.(1999)). Inhibition of PDE has long been recognized as an effective pharmacological strategy to alter intracellular cyclic nucleotide levels (Flamm, E.S., *et al., Arch. Neurol., 32(8)*:569-71 (1975)).

It has been reported that PDE4 is the predominant isozyme regulating vascular tone mediated by cAMP hydrolysis in cerebral vessels (Willette, R.N., *et al., J. Cereb. Blood Flow Metab., 17(2)*:210-9 (1997)).

A recent study on mice with targeted disruption of PDE4D gene (Hansen, G., *et al., Proc. Natl. Acad. Sci. U S A, 97(12)*:6751-6 (2000)) has demonstrated a crucial role of PDE4D in the control of smooth muscle contraction and muscarinic cholinergic receptor signaling but not in the control of airway inflammation. The lung phenotype of the PDE4D-/- mice demonstrates that this gene plays a nonredundant role in cAMP homeostasis. There is a significant reduction in PDE activity and an increase in resting and stimulated cAMP levels in the lung, indicating that other PDE4s (or other PDEs) are not up-regulated and cannot compensate for the loss of PDE4D. These findings support that PDE4D serves a unique, nonoverlapping functions in cell signalling.

No clear link between an established inherited disorder and known PDE loci has emerged, with the exception of PDE6. Inhibitors of PDEs have been shown to affect airway responsiveness and pulmonary allergic inflammation (Schudt, C., *et al., Pulm. Pharmacol. Ther., 12(2)*:123-9 (1999)). There are reports suggesting that altered PDE4 function may be linked to nephrogenic diabetes insipidus (Takeda, S., *et al., Endocrinology, 129(1)*:287-94 (1991)) or atopic dermatitis (Chan, S.C., *et al., J. Allergy Clin. Immunol., 91(6)*:1179-88 (1993)), however no mutations have been identified. It has also been reported that that vasorelaxation modulated by PDE4 (not mentioned whether it is A, B, C or D gene family) is compromised in chronic cerebral vasospasm associated with subarachnoid hemorrhage (Willette, R.N., *et al., J. Cereb. Blood Flow Metab., 17(2)*:210-9 (1997)). PDE4D itself has not been linked to stroke before.

PDE4D expression and cellular localization

PDE4Ds are expressed in human peripheral mononuclear cells (Nemoz, G., *et al., FEBS Lett, 384(1)*:97-102 (1996)), brain (Bolger, G., *et al., Mol. Cell Biol., 13(10)*:6558-71 (1993)), heart (Kostic, M.M., *et al., J. Mol. Cell Cardiol.,*

29(11):3135-46 (1997)) and vascular smooth muscle cells (Liu, H. and D.H. Maurice, *J. Biol. Chem., 274(15)*:10557-65 (1999)).

Immunoblotting of rat brain has shown that the PDE4D3, PDE4D4 and PDE4D5 proteins are present in brain (Bolger, G.B., *et al., Biochem. J., 328(Pt 2)*:539-48 (1997)) and are expressed in cortex and cerebellum from rat (Iona, S., *et al., Mol. Pharmacol., 53(1)*:23-32 (1998)). These proteins were recovered mostly or exclusively in the particulate fraction suggesting that these forms may be targeted to insoluble cellular structures. In addition a 68 kDa protein was detected which could represent PDE4D1, PDE4D2 or both. To verify this RT-PCR was performed on mRNA from rat brain and the results showed that transcripts for PDE4D1 and 2 were present. Their data also suggests that the N-terminal regions of the PDE4D3-5, derived from alternatively spliced regions of their mRNAs, are important in determining their subcellular localization activity and differential sensitivity to inhibitors and there are indications that there is a propensity for the long PDE4D isoforms to interact with particulate fraction of the cell.

Newly identified isoforms

Five new exons have been identified. Exon D6 was identified by deCODE (in silico) and verified by RT-PCR. The four other new exons have been identified using CAP-RACE amplification from cultured cells with an "long-form 1"-specific reverse primer. Three of these exons are spliced to one another and together onto LF1 and this new isoform was given the name D7. The fourth new 5' exon was spliced by itself onto LF1 and given the name D8. These constitute two previously unknown isoforms.

In terms of genomic structure, the D7 exons extend the known 5' end of PDE4D over 590,000 bp and the D8 exon lies between two previously recognized exons. The D7 isoform has an open reading frame extending into LF1, resulting in an additional 90 amino acids at the N-terminus of the predicted protein. The D8 5′ exon contains a long 5' UTR, followed by an ATG near the end of the exon that extends an ORF into LF1 and results in a novel 21 N-terminal amino acids in the predicted protein.

Table 11: New Isoforms

Isoform Name	Exon		Size	Cell line
PDE4D6	D6			
PDE4D7	D7-1	5'	122 bp	SKNAS
PDE4D7	D7-2	Internal	131bp	SKNAS
PDE4D7	D7-3	Internal	230 bp	SKNAS
PDE4D8	D8	5'	782 bp	HeLa

The sequences are as follows:

D7-1:

ATAGTTGGCGTACCCTGAGGCCTGCCAGTTCCTGCCTTAATGCATATGTAGT
CGTAATTGAGTTCTGACACGGCCTTGGATGTTTCTGTCCTAAATAGCTGACA
TTGCATCTTCAAGACTGT

D7-2:

CATTCCAGTTGGCTTTTGAGTGGATACGTGCAGTGAGATCATTGACACTGGA
AACACTAGTTCCCATTTTAATTACTTAAAACACCACGATGAAAAGAAATACC
TGTGATTTGCTTTCTCGGAGCAAAAGT

D7-3:

GCCTCTGAGGAAACACTACATTCCAGTAATGAAGAGGAAGACCCTTTCCGC
GGAATGGAACCCTATCTTGTCCGGAGACTTTCATGTCGCAATATTCAGCTTC
CCCCTCTCGCCTTCAGACAGTTGGAACAAGCTGACTTGAAAAGTGAATCAGA
GAACATTCAACGACCAACCAGCCTCCCCCTGAAGATTCTGCCGCTGATTGCT
ATCACTTCTGCAGAATCCAGTGG (SEQ. ID NO.: 11; includes D7-1, D7-2 and D7-3)

New predicted amino-terminal protein sequence from above (PDE4D7):

MKRNTCDLLSRSKSASEETLHSSNEEEDPFRGMEPYLVRRLSCRNIQLPPLAFRQ
LEQADLKSESENIQRPTSLPLKILPLIAITSAESS (90 amino acids) (SEQ ID NO.:12)

D8:

TTCTCACTGCCCTGCGGTGTTTGAACTGCCTTCTTACAGACGTCATACAGCC
CTTGAGGAATAGTTTCTGCCTGGTGAGATTGAATGATAGTTCTCATTCACAA
AACCCTGGATTCTAAGCAGGGACACACAGAAATTACTTTCGCAGGTAAATC
AGCCCACCCAGCCAAAGTGTGGAGAGATTTGTTCCTTGGCTGACTTCTTTGC
TCCACGGAGAGGAGTGTTTTCCTGTGCTTGCCCTGAAATGGAACTTCCTTGA
CAGCTCTCCCGTGTTACAGTACCTCCCGGTCATTTTCTTTTTCTCTCTCTCTAC
CTGCGCTCTTCGAGTGTCAGAAACCTTTAAAGCTGTTACTATGGAATTGCAA
AAAAGAGATCAAGTGACTCTTTCACTATGCTGGTTTCCCTTGTGACCCAGAT
GAAGAATCAATTCAGAATTCAGTTCCTCCCTTGGCATTGCAAGACACAGAAG
AAACTGTCACTTCCTAACAGCCTAGTACTGGAGTAAATTCAGTATGAAGGAA
GAAAGCGCTCCTGCGTGTTAGAACCTTGCCCATGAGCTGGACCGAGGACAG
GAGATGGACTCCAGGAAAATTGGATTTCTTCAAGCAGCCTCCCTTGGAAATG
GAATATCTTTAAAATCTTCTTTGCAGAAAGACAGTTAGAATGTATTAATCAG
AATAGTTGAAGACTTATTTTCCTTTTTATTTTTTTTCAAAATGAGCATTATTAT
GAAGCCAAGATCCCGATCTACAAGTTCCCTAAGGACTGCAGAGGCAGTTTG
(SEQ ID NO.:13)

New predicted amino-terminal protein sequence from above (PDE4D8):

MSIIMKPRSRSTSSLRTAEAV (21 amino acids) (SEQ ID NO.: 14).

Expression analysis

The tissues below were examined by RT-PCR, cloning and sequencing. The presence (Pos.) or absence (-) of the isoforms transcripts is shown in tables below.

Table 12A Original Cell Lines (SKNAS and HeLa)

	D7	D8
HeLa	-	Pos.
SkNAs	Pos.	Pos.

Table 12B Human tissue DNA panels

cDNA panels	D7	D8
Spleen	-	Pos.
Lymph node	Pos.	Pos.
Thymus	Pos.	Pos.
Tonsil	Pos.	Pos.
Leukocytes	Pos.	Pos.
Bone marrow	Pos.	Pos.
Heart	-	Pos.
Brain	-	Pos.
Placenta	Pos.	Pos.
Lung	Pos.	Pos.
Liver	-	Pos.
Skel. muscle	-	Pos.
Kidney	Pos.	Pos.
Pancreas	-	Pos.

Table 12C Human blood cell fractions

	D7	D8
Spleen	Pos.	Pos.
Lymph node	Pos.	Pos.
Thymus	Pos.	Pos.
Tonsil	Pos.	Pos.
Leukocytes	Pos.	-
Bone marrow	Pos.	Pos.
Fetal liver	Pos.	Pos.
Mononucl. cells resting	Pos.	Pos.
CD4Pos. resting	-	Pos.
CD8Pos. resting	-	-
CD14Pos. resting	Pos.	Pos.
CD19Pos. resting	Pos.	Pos.
Mononucl. cells activated	-	-
CD4Pos. activated	-	-
CD8Pos. activated	-	-
CD19Pos. activated	-	Pos.

Table 12D Cultured in-house endothelial and smooth muscle cells from patients

Cell type	D1	D2	D3	D5	D6	D7	D8
Normal aorta smooth musc.	Pos.	Pos.	Pos.	Pos.	Pos.	-	-
Diseased aorta smooth musc.	Pos.	Pos.	-	Pos.	Pos.	-	Pos.
Diseased aorta smooth musc.	Pos.	Pos.	-	Pos.	Pos.	-	-
Diseased femoral smooth musc.	Pos.	Pos.	-	Pos.	Pos.	-	Pos.
Normal aortic endothelial cells	Pos.	Pos.	Pos.	Pos.	Pos.	Pos.	Pos.
Diseased aortic endothelial cells	Pos.	Pos.	-	Pos.	Pos.	-	-
Diseased femoral endothelial cells	Pos.	Pos.	-	Pos.	Pos.	-/?	-/?

Isoform specific primers were designed in order to better determine the expression of different PDE4D isoforms using RT-PCR on Epstein Barr Virus (EBV) transformed B cell lines from stroke patients and controls. The results are outlined in Tables 13A and 13B below. There is a significant difference between the expression of D3 and D7 in patients compared to controls.

Table 13A RT-PCR on EBV transformed B stroke patient cells

Patient Cells	PDE4D*	D3	D4	D5	D6	D7	D8
P-1	Pos.	Pos.	-	Pos.	-	Pos.	Pos.
P-2	Pos.	Pos.	-	Pos.	-	Pos.	-
P-3	Pos.	-	-	Pos.	-	-	-
P-4	Pos.	Pos.	-	Pos.	-	Pos.	-
P-5	Pos.	Pos.	Pos.	Pos.	-	Pos.	-
P-6	Pos.	-	Pos.	Pos.	-	Pos.	-
P-7	Pos.	Pos.	-	Pos.	-	Pos.	-
P-8	Pos.	-	-	-	-	Pos.	-
P-9	Pos.	-	-	Pos.	-	Pos.	-
P-10	Pos.	-	-	Pos.	Pos.	Pos.	-
P-11	Pos.	-	-	Pos.	-	Pos.	-
P-12	Pos.	-	-	Pos.	-	Pos.	-
P-13	Pos.	-	-	Pos.	-	Pos.	-
P-14	Pos.	-	-	Pos.	-	Pos.	-
% expr.	100	35,7	14,3	92,8	7,1	92,8	7,1

*Primers designed for the common region of PDE4D identical for all isoforms

Table 13B RT-PCR on EBV transformed B control cells

Control Cells	PDE4D *	D3	D4	D5	D6	D7	D8
C-1	Pos.	-	-	Pos.	-	-	Pos.
C-2	Pos.	-	-	Pos.	-	-	-
C-3	Pos.	-	-	Pos.	-	-	-
C-4	Pos.	-	-	Pos.	-	-	-
C-5	Pos.	-	-	-	-	Pos.	-
C-6	Pos.	-	-	-	-	-	-
C-7	-	-	-	Pos.	-	-	Pos.
C-8	Pos.	-	-	-	-	Pos.	-
C-8	Pos.	Pos.	-	Pos.	-	Pos.	-
C-9	Pos.	-	-	-	-	Pos.	-
C-10	Pos.	-	-	Pos.	-	Pos.	-
C-11	Pos.	-	-	Pos.	-	Pos.	-
C-12	Pos.	-	-	Pos.	-	-	-
% expr.	92,3	7,7[a]	0	69,2	0	46,2[b]	15,4

[a] $p < 0.09$ using Fisher's Exact Test.

[b] $p = 0.01$ using Fisher's Exact Test

*Primers designed for the common region of PDE4D identical for all isoforms

Table 9

Publically Available SNPS; SNP ID No. from NCBI Database

rs286155	rs40512	rs251726	rs2042315	rs1544791	rs1355099
rs286156	rs35386	rs1862589	rs918590	rs851284	rs1396473
rs2061250	rs35387	rs702556	rs918591	rs1396476	rs1369285
rs286150	rs27221	rs702554	rs918592	rs1508860	rs1435071
rs206789	rs27653	rs441391	rs1115372	rs1974850	rs1435070
rs1823062	rs26955	rs446883	rs1345782	rs2136203	rs1435083
rs1823063	rs26956	rs789615	rs1363862	rs2174994	rs991551
rs1445852	rs153031	rs401207	rs1423248	rs1508863	rs1154790
rs766119	rs185190	rs364917	rs1423246	rs1508859	rs1154789
rs956721	rs37762	rs404202	rs1862614	rs1508864	rs714291
rs248910	rs37761	rs440607	rs2194256	rs1396474	rs981760
rs248912	rs1423471	rs411255	rs889305	rs1543951	rs1369288
rs187481	rs27224	rs615429	rs2113071	rs2016324	rs977418
rs153152	rs1645013	rs789396	rs2113072	rs1995780	rs977417
rs27960	rs1423472	rs37684	rs966220	rs1508865	rs977416
rs27564	rs27220	rs1445893	rs966221	rs952110	rs1529843
rs27565	rs1423473	rs37685	rs719702	rs1533019	rs1529842
rs26948	rs149079	rs1086121	rs2113073	rs2117552	rs1435077
rs40131	rs149324	rs42222	rs2113074	rs1545069	rs1369287
rs26949	rs153067	rs37707	rs2113075	rs1545070	rs1017410
rs26950	rs40354	rs37708	rs1035512	rs973700	rs1017409
rs26954	rs26951	rs37709	rs1559277	rs1583434	rs1435076
rs26953	rs153029	rs789389	rs1981848	rs1347401	rs1435075
rs152324	rs27223	rs1423247	rs1544788	rs1949017	rs1435074
rs35385	rs27222	rs874768	rs1544790	rs723962	rs978455

rs1827340	rs159621	rs1504982	rs298084	rs298027	rs295972
rs1393083	rs159625	rs877745	rs298083	rs298028	rs295971
rs988364	rs1435072	rs877744	rs298073	rs298029	rs295970
rs1017408	rs173945	rs2164661	rs298072	rs298030	rs295969
rs2053155	rs256356	rs981230	rs298071	rs169868	rs295968
rs181923	rs185351	rs1437124	rs1421400	rs177077	rs295966
rs1546364	rs256355	rs746477	rs402874	rs298032	rs726652
rs173942	rs2067024	rs893191	rs434368	rs298033	rs295965
rs159616	rs256354	rs1992112	rs371011	rs298034	rs1307218
rs159620	rs173944	rs298102	rs298063	rs298035	rs1307217
rs1501641	rs256353	rs298101	rs298062	rs298042	rs893190
rs159619	rs986400	rs2164660	rs298061	rs298044	rs1111495
rs159614	rs1504981	rs298100	rs298060	rs298045	rs295961
rs159613	rs1120533	rs298098	rs298057	rs298046	rs295960
rs159612	rs256351	rs298096	rs298056	rs298048	rs295959
rs159611	rs190458	rs298095	rs1370230	rs298049	rs295958
rs194368	rs256352	rs298094	rs297975	rs298050	rs296410
rs661576	rs171745	rs298093	rs297974	rs298051	rs295957
rs299627	rs1157709	rs1362942	rs379578	rs298052	rs295956
rs159608	rs1910790	rs1362941	rs920190	rs298053	rs295955
rs159609	rs1910789	rs298091	rs1865962	rs190936	rs295954
rs159624	rs1504985	rs298090	rs298018	rs298017	rs295949
rs1159470	rs1008709	rs298089	rs298021	rs298016	rs295980
rs159622	rs1027747	rs298088	rs298022	rs298015	rs295979
rs256349	rs869685	rs298087	rs298023	rs298014	rs295978
rs256348	rs869686	rs1421401	rs298024	rs2053229	rs1154587
rs1501640	rs924880	rs298086	rs298025	rs295974	rs296406
rs600611	rs1504983	rs298085	rs298026	rs295973	rs296405

rs295948	rs294478	rs37575	rs1457111	rs171800	rs403695
rs295947	rs953302	rs37576	rs1824154	rs187716	rs403672
rs295946	rs294479	rs1876209	rs2112911	rs258110	rs372309
rs295945	rs697075	rs190486	rs1551564	rs258109	rs424839
rs295944	rs294481	rs447261	rs2034895	rs258108	rs370891
rs1395334	rs294482	rs1506558	rs2081092	rs258107	rs434183
rs295943	rs294483	rs1108916	rs2112910	rs665836	rs444552
rs1035321	rs702545	rs921942	rs918583	rs392901	rs433565
rs294494	rs294484	rs924998	rs1840838	rs383444	rs1445918
rs722923	rs294485	rs176705	rs1350298	rs662643	rs441817
rs294495	rs294486	rs1156029	rs1990985	rs670169	rs433161
rs294496	rs702544	rs1156028	rs1379297	rs525099	rs428059
rs294497	rs702543	rs931857	rs1817248	rs669240	rs434422
rs294498	rs159194	rs931856	rs244569	rs381755	rs427433
rs294499	rs40215	rs931855	rs244568	rs454702	rs391377
rs294500	rs291118	rs1506557	rs244567	rs443191	rs414746
rs294501	rs1506560	rs462930	rs244565	rs380118	rs187368
rs294503	rs37569	rs458953	rs185417	rs2168649	rs244593
rs295936	rs291119	rs174039	rs258128	rs371775	rs244592
rs1395336	rs37571	rs2174624	rs258127	rs378970	rs244591
rs1395337	rs1870077	rs2135480	rs258125	rs401013	rs244590
rs294492	rs159195	rs992726	rs1348710	rs427748	rs181736
rs159196	rs37572	rs294474	rs1348709	rs427740	rs193447
rs159197	rs37573	rs294475	rs1971061	rs378869	rs2028842
rs172362	rs167161	rs988827	rs1541673	rs1902609	rs2028841
rs37579	rs37574	rs988828	rs1541672	rs389324	rs1823068
rs721784	rs1506562	rs1350297	rs258112	rs387647	rs1823067
rs697076	rs291122	rs1457110	rs258111	rs377451	rs1823066

rs244588	rs35275	rs2014012	rs531105	rs27691	rs464311
rs168641	rs40125	rs37353	rs27184	rs35310	rs149108
rs2059175	rs35274	rs187645	rs1445951	rs26689	rs153980
rs2059174	rs244577	rs1809012	rs1947090	rs27187	rs153961
rs1118965	rs35267	rs187644	rs26708	rs1445948	rs1867725
rs154028	rs35266	rs153981	rs2112959	rs26687	rs153965
rs151802	rs39672	rs255652	rs1445953	rs166260	rs153966
rs244580	rs958851	rs255650	rs26709	rs149506	rs1988803
rs1457145	rs244576	rs255649	rs26710	rs27722	rs467300
rs244579	rs244575	rs2194210	rs28055	rs26695	rs1664886
rs255812	rs244573	rs255648	rs26711	rs27773	rs1867724
rs154029	rs35258	rs255647	rs27723	rs1471429	rs1445947
rs185333	rs35259	rs154221	rs27185	rs1471430	rs42470
rs35289	rs40121	rs256752	rs27695	rs26705	rs1423308
rs35288	rs35261	rs256120	rs1445954	rs28054	rs27174
rs35287	rs35264	rs255635	rs27549	rs26703	rs168834
rs35286	rs40122	rs185325	rs455969	rs27898	rs27727
rs35285	rs35265	rs26686	rs26712	rs722010	rs27172
rs35284	rs35255	rs1031197	rs1867711	rs27957	rs676449
rs35283	rs721826	rs1031198	rs1867712	rs26702	rs27186
rs35282	rs244570	rs27183	rs26713	rs27548	rs2112957
rs35281	rs27171	rs28044	rs26714	rs26701	rs1023814
rs35280	rs1824159	rs27182	rs27547	rs27188	rs27175
rs35279	rs27170	rs545611	rs26715	rs27189	rs1445950
rs35278	rs27169	rs649476	rs27949	rs149084	rs2021384
rs40126	rs27168	rs1664896	rs26700	rs153968	rs736736
rs35277	rs2013979	rs149106	rs1306348	rs464787	rs745813
rs35276	rs889231	rs1374028	rs35309	rs153978	rs889229

rs1077978	rs1353749	rs2055295
rs2081106	rs1391651	rs1391648
rs1559252	rs1391650	rs2055298
rs2054443	rs1391649	rs1472456
rs922437	rs1391652	rs1553114
rs922436	rs950446	rs1542842
rs922435	rs950447	rs1498611
rs922434	rs1498599	rs1532520
rs716908	rs1498601	
rs1971940	rs1498609	
rs1559251	rs1498608	
rs1345791	rs1553113	
rs1345792	rs1353748	
rs1345793	rs1498606	
rs1105577	rs1353747	
rs1960	rs1006431	
rs1824788	rs1948651	
rs1862563	rs1498605	
rs1551939	rs1498604	
rs1038080	rs1498603	
rs997421	rs1995166	
rs1014317	rs1498602	
rs2059191	rs1077183	
rs1551938	rs1078368	
rs1186170	rs1874857	
rs986067	rs1874858	
rs954740	rs1909294	
rs1363882	rs1546221	

Table 10

New SNP's identified by deCODE

Position in patent	Variation	AA Change	Exon
732790	G/T		
735966	C/A		
736226	A/G		
736516	C/T		
850001	G/A		
852776	A/C		
853079	G/T		
853575	C/A		
856468	A/G		
860845	A/G		
870924	A/G		
1027267	T/C		
1027643	T/G		
1027757	T/C		
1028146	T/A		
1037657	A/C		
1044016	G/A		
1044045	C/T		
1254737	T/C		
1254849	T/C		
1255763	G/T		
1257206	A/G		
1258161	T/C		
1268007	A/G		
1268187	C/T		
1268553	A/G		
1272669	G/A		
1272910	A/G		
1273023	G/A		
1273220	A/G		
1273240	A/G		
1273543	C/T		
1288439	G/A		
1289730	T/A		
1290176	G/A		
1293745	T/C		
1344605	A/G		
1344864	G/A		
1345135	C/G		
1345286	A/G		
1346112	C/T		
1352976	A/T		
1354291	T/C		
1354377	C/T		
1354554	C/A		
1354675	T/C		
1355114	T/C		

1355693	A/G	1575634	A/T		
1357081	A/G	1580088	G/A		
1362985	T/G	1581078	G/A		
1363021	C/T	1582418	T/A		
1363827	C/T	1584580	A/C		
1363911	G/A	1585955	G/T		
1364061	C/T	1590608	T/C		
1364066	T/A	15906[illegible]	A/G		
1367904	A/G	1590673	G/T		
1368193	T/C	1590837	G/A		
1368217	G/C	1590936	C/A		
1373349	C/T	1591011	G/A		
1373384	A/G	1591047	C/T		
1373415	T/C	1591306	C/A	Pro->Thr	D1
1373979	T/G	1591583	T/C		
1376149	G/A	1594788	C/A		
1384931	A/C	1594994	G/A		
1385093	A/T	1601831	C/T		
1385107	G/A	1636902	T/C		
1385445	T/C	1638550	A/C	Lys->Thr	exon 4
1391418	G/C	1640663	T/C		
1409210	C/A	1641954	C/T		
1414804	C/T	1641960	C/T		
1428284	T/C	1653881	G/A		
1431800	A/T	1655748	G/A		
1449904	A/T				
1574301	C/G				
1574615	C/T				

While this invention has been particularly shown and described with reference to preferred embodiments thereof, it will be understood by those skilled in the art that various changes in form and details may be made therein without departing from the spirit and scope of the invention as defined by the appended claims.

CLAIMS

What is claimed is:

1. An isolated nucleic acid molecule comprising a phosphodiesterase 4D gene, or a fragment or variant thereof.

2. The isolated nucleic acid molecule of Claim 1, wherein the phosphodiesterase 4D gene has the nucleotide sequence of SEQ ID NO:1 which may optionally comprise at least one polymorphism as shown in Table 9, 10 or combination thereof.

3. A nucleic acid encoding a polypeptide having an amino acid sequence selected from the group consisting of SEQ ID NOs: 2-10, 12 or 14.

4. An isolated nucleic acid molecule comprising a nucleotide sequence selected from the group consisting of SEQ ID NO: 1 which may optionally comprise at least one polymorphism as shown in Table 9, 10 or combination thereof, and the complement thereof.

5. An isolated nucleic acid molecule which hybridizes under high stringency conditions to a nucleotide sequence selected from the group consisting of SEQ ID NO: 1 which may optionally comprise at least one polymorphism as shown in Table 9, 10 or combination thereof, and the complement thereof.

6. An isolated nucleic acid molecule which hybridizes under high stringency conditions to a nucleotide sequence encoding an amino acid sequence selected from the group consisting of: SEQ ID NOs: 2-10, 12 or 14.

7. A method for assaying the presence of a first nucleic acid molecule in a sample, comprising contacting said sample with a second nucleic acid molecule comprising a nucleotide sequence selected from the group consisting of SEQ ID NO: 1 which may optionally comprise at least one polymorphism as shown in Table 9, 10 or combination thereof, and the complement thereof, under high stringency conditions.

8. A vector comprising an isolated nucleic acid molecule selected from the group consisting of: SEQ ID NO: 1, the complement of SEQ ID NO: 1 SEQ ID NOs: 2-10, 12 or 14, operatively linked to a regulatory sequence; wherein the nucleic acid molecule may optionally comprise at least one polymorphism as shown in Table 9, 10 or combination thereof.

9. A recombinant host cell comprising the vector of Claim 8.

10. A method for producing a polypeptide encoded by an isolated nucleic acid molecule, comprising culturing the recombinant host cell of Claim 9 under conditions suitable for expression of said nucleic acid molecule.

11. An isolated polypeptide encoded by a phosphodiesterase 4D gene, or a fragment or variant of said polypeptide.

12. The isolated polypeptide of Claim 11, wherein the phosphodiesterase 4D gene has the sequence of SEQ ID NO: 1 which may optionally comprise at least one

polymorphism as shown in Table 9, 10 or combination thereof, or the complement thereof.

13. The isolated polypeptide of Claim 11, wherein the polypeptide has an amino acid sequence selected from the group consisting of SEQ ID NOs: 2-10, 12 or 14.

14. An isolated polypeptide comprising an amino acid sequence which is greater than about 90 percent identical to an amino acid sequence selected from the group consisting of SEQ ID NOs: 2-10, 12 or 14.

15. A fusion protein comprising an isolated polypeptide of Claim 11.

16. An antibody, or an antigen-binding fragment thereof, which selectively binds to a polypeptide of Claim 11.

17. An antibody, or an antigen-binding fragment thereof, which selectively binds to an amino acid sequence selected from the group consisting of SEQ ID NOs: 2-10, 12 or 14, or to a fragment or variant of said amino acid sequence.

18. A method for assaying the presence of a polypeptide encoded by an isolated nucleic acid molecule according to Claim 1 in a sample, comprising contacting said sample with an antibody which specifically binds to the encoded polypeptide.

19. A method of diagnosing a susceptibility to stroke in an individual, comprising detecting a polymorphism in phosphodiesterase 4D gene, wherein the presence of the polymorphism in the gene is indicative of a susceptibility to stroke.

20. A method of diagnosing a susceptibility to stroke, comprising detecting an alteration in the expression or composition of a polypeptide encoded by phosphodiesterase 4D gene in a test sample, in comparison with the expression or composition of a polypeptide encoded by phosphodiesterase 4D gene in a control sample, wherein the presence of an alteration in expression or composition of the polypeptide in the test sample is indicative of a susceptibility to stroke.

21. The method of Claim 20, wherein the alteration in the expression or composition of a polypeptide encoded by phosphodiesterase 4D gene comprises expression of a splicing variant polypeptide in a test sample that differs from a splicing variant polypeptide expressed in a control sample.

22. A method of identifying an agent which alters activity of a polypeptide of Claim 11, comprising:

a) contacting the polypeptide or a derivative or fragment thereof, with an agent to be tested;

b) assessing the level of activity of the polypeptide or derivative or fragment thereof; and

c) comparing the level of activity with a level of activity of the polypeptide or active derivative or fragment thereof in the absence of the agent,

wherein if the level of activity of the polypeptide or derivative or fragment thereof in the presence of the agent differs, by an amount that is statistically significant, from the level in the absence of the agent, then the agent is an agent that alters activity of the polypeptide.

23. An agent which alters activity of a polypeptide encoded by phosphodiesterase 4D gene, identifiable according to the method of Claim 22.

24. An agent which alters activity of a polypeptide encoded by phosphodiesterase 4D gene, wherein the agent is selected from the group consisting of: a phosphodiesterase 4D gene receptor; a phosphodiesterase 4D gene binding agent; a peptidomimetic; a fusion protein; a prodrug; an antibody; and a ribozyme.

25. A method of altering activity of a polypeptide encoded by phosphodiesterase 4D gene, comprising contacting the polypeptide with an agent of Claim 24.

26. A method of identifying an agent which alters interaction of the polypeptide of Claim 11 with a phosphodiesterase 4D gene binding agent, comprising:

a) contacting the polypeptide or a derivative or fragment thereof, the binding agent and with an agent to be tested;

b) assessing the interaction of the polypeptide or derivative or fragment thereof with the binding agent; and

c) comparing the level of interaction with a level of interaction of the polypeptide or derivative or fragment thereof with the binding agent in the absence of the agent,

wherein if the level of interaction of the polypeptide or derivative or fragment thereof in the presence of the agent differs, by an amount that is statistically significant, from the level of interaction in the absence of the agent, then the agent is an agent that alters interaction of the polypeptide with the binding agent.

27. An agent which alters interaction of a phosphodiesterase 4D gene polypeptide with a phosphodiesterase 4D gene binding agent, identifiable according to the method of Claim 26.

28. An agent which alters interaction of a phosphodiesterase 4D gene polypeptide with a first phosphodiesterase 4D gene binding agent, selected from the group consisting of: a phosphodiesterase 4D gene receptor; a second phosphodiesterase 4D gene binding agent; a peptidomimetic; a fusion protein; a prodrug; an antibody; and a ribozyme.

29. A method of altering interaction of a phosphodiesterase 4D gene polypeptide with a phosphodiesterase 4D gene binding agent, comprising contacting the phosphodiesterase 4D gene polypeptide and/or the phosphodiesterase 4D gene binding agent with an agent of Claim 28.

30. A method of identifying an agent which alters expression of phosphodiesterase 4D gene, comprising the steps of:

a) contacting a solution containing a nucleic acid of Claim 1 or a derivative or fragment thereof with an agent to be tested;

b) assessing the level of expression of the nucleic acid, derivative or fragment; and

c) comparing the level of expression with a level of expression of the nucleic acid, derivative or fragment in the absence of the agent,

wherein if the level of expression of the nucleotide, derivative or fragment in the presence of the agent differs, by an amount that is statistically significant, from the expression in the absence of the agent, then the agent is an agent that alters expression of phosphodiesterase 4D gene.

31. An agent which alters expression of phosphodiesterase 4D gene, identifiable according to the method of Claim 30.

32. A method of identifying an agent which alters expression of phosphodiesterase 4D gene, comprising the steps of:

a) contacting a solution containing a nucleic acid comprising the promoter region of phosphodiesterase 4D gene operably linked to a reporter gene, with an agent to be tested;

b) assessing the level of expression of the reporter gene; and

c) comparing the level of expression with a level of expression of the reporter gene in the absence of the agent,

wherein if the level of expression of the reporter gene in the presence of the agent differs, by an amount that is statistically significant, from the level of expression in the absence of the agent, then the agent is an agent that alters expression of phosphodiesterase 4D gene.

33. An agent which alters expression of phosphodiesterase 4D gene, identifiable according to the method of Claim 32.

34. A method of identifying an agent which alters expression of phosphodiesterase 4D gene, comprising the steps of:

a) contacting a solution containing a nucleic acid of Claim 1 or a derivative or fragment thereof with an agent to be tested;

b) assessing expression of the nucleic acid, derivative or fragment; and

c) comparing expression with expression of the nucleic acid, derivative or fragment in the absence of the agent,

wherein if expression of the nucleotide, derivative or fragment in the presence of the agent differs, by an amount that is statistically significant, from the expression in the absence of the agent, then the agent is an agent that alters expression of phosphodiesterase 4D gene.

35. The method of Claim 34, wherein the expression of the nucleotide, derivative or fragment in the presence of the agent comprises expression of one or more

splicing variant(s) that differ in kind or in quantity from the expression of one or more splicing variant(s) the absence of the agent.

36. An agent which alters expression of phosphodiesterase 4D gene, identifiable according to the method of Claim 34.

37. An agent which alters expression of phosphodiesterase 4D gene, selected from the group consisting of: antisense nucleic acid to phosphodiesterase 4D gene; a phosphodiesterase 4D gene polypeptide; a phosphodiesterase 4D gene receptor; a phosphodiesterase 4D gene binding agent; a peptidomimetic; a fusion protein; a prodrug thereof; an antibody; and a ribozyme.

38. A method of altering expression of phosphodiesterase 4D gene, comprising contacting a cell containing phosphodiesterase 4D gene with an agent of Claim 37.

39. A method of identifying a polypeptide which interacts with a phosphodiesterase 4D gene polypeptide, comprising employing a two yeast hybrid system using a first vector which comprises a nucleic acid encoding a DNA binding domain and a phosphodiesterase 4D gene polypeptide, splicing variant, or fragment or derivative thereof, and a second vector which comprises a nucleic acid encoding a transcription activation domain and a nucleic acid encoding a test polypeptide, wherein if transcriptional activation occurs in the two yeast hybrid system, the test polypeptide is a polypeptide which interacts with a phosphodiesterase 4D polypeptide.

40. A phosphodiesterase 4D gene therapeutic agent selected from the group consisting of: a phosphodiesterase 4D gene or fragment or derivative thereof; a polypeptide encoded by phosphodiesterase 4D gene; a phosphodiesterase 4D gene receptor; a phosphodiesterase 4D gene binding agent; a peptidomimetic; a

fusion protein; a prodrug; an antibody; an agent that alters phosphodiesterase 4D gene expression; an agent that alters activity of a polypeptide encoded by phosphodiesterase 4D gene; an agent that alters posttranscriptional processing of a polypeptide encoded by phosphodiesterase 4D gene; an agent that alters interaction of a phosphodiesterase 4D gene with a phosphodiesterase 4D gene binding agent; an agent that alters transcription of splicing variants encoded by phosphodiesterase 4D gene; and a ribozyme.

41. A pharmaceutical composition comprising a phosphodiesterase 4D gene therapeutic agent of Claim 40.

42. The pharmaceutical composition of Claim 41, wherein the phosphodiesterase 4D gene therapeutic agent is an isolated nucleic acid molecule comprising a phosphodiesterase 4D gene or fragment or derivative thereof.

43. The pharmaceutical composition of Claim 41, wherein the phosphodiesterase 4D gene therapeutic agent is a polypeptide encoded by the phosphodiesterase 4D gene.

44. A method of treating stroke in an individual, comprising administering a phosphodiesterase 4D gene therapeutic agent to the individual, in a therapeutically effective amount.

45. The method of Claim 44, wherein the phosphodiesterase 4D gene therapeutic agent is a phosphodiesterase 4D gene agonist.

46. The method of Claim 45 wherein the phosphodiesterase 4D gene therapeutic agent is a phosphodiesterase 4D gene antagonist.

47. A transgenic animal comprising a nucleic acid selected from the group consisting of: an exogenous phosphodiesterase 4D gene and a nucleic acid encoding a phosphodiesterase 4D gene polypeptide.

48. A method for assaying a sample for the presence of a phosphodiesterase 4D gene nucleic acid, comprising:

a) contacting said sample with a nucleic acid comprising a contiguous nucleotide sequence which is at least partially complementary to a part of the sequence of said phosphodiesterase 4D gene nucleic acid under conditions appropriate for hybridization, and

b) assessing whether hybridization has occurred between a phosphodiesterase 4D gene nucleic acid and said nucleic acid comprising a contiguous nucleotide sequence which is at least partially complementary to a part of the sequence of said phosphodiesterase 4D gene nucleic acid.

49. The method of Claim 48, wherein said nucleic acid comprising a contiguous nucleotide sequence is completely complementary to a part of the sequence of said phosphodiesterase 4D gene nucleic acid.

50. The method of Claim 48, comprising amplification of at least part of said phosphodiesterase 4D gene nucleic acid.

51. The method of Claim 48, wherein said contiguous nucleotide sequence is 100 or fewer nucleotides in length and is either: a) at least 80% identical to a contiguous sequence of nucleotides in SEQ ID NO: 1 which may optionally comprise at least one polymorphism as shown in Table 9, 10 or combination thereof; b) at least 80% identical to the complement of a contiguous sequence of nucleotides in SEQ ID NO: 1 which may optionally comprise at least one

polymorphism as shown in Table 9, 10 or combination thereof; or c) capable of selectively hybridizing to said phosphodiesterase 4D gene nucleic acid.

52. A reagent for assaying a sample for the presence of a phosphodiesterase 4D gene nucleic acid, said reagent comprising a nucleic acid comprising a contiguous nucleotide sequence which is at least partially complementary to a part of the nucleotide sequence of said phosphodiesterase 4D gene nucleic acid.

53. The reagent of Claim 52, wherein the nucleic acid comprises a contiguous nucleotide sequence which is completely complementary to a part of the nucleotide sequence of said phosphodiesterase 4D gene nucleic acid.

54. A reagent kit for assaying a sample for the presence of a phosphodiesterase 4D gene nucleic acid, comprising in separate containers:

a) one or more labeled nucleic acids comprising a contiguous nucleotide sequence which is at least partially complementary to a part of the nucleotide sequence of said phosphodiesterase 4D gene nucleic acid, and

b) reagents for detection of said label.

55. The reagent kit of Claim 54, wherein the labeled nucleic acid comprises a contiguous nucleotide sequences which is completely complementary to a part of the nucleotide sequence of said phosphodiesterase 4D gene nucleic acid.

56. A reagent kit for assaying a sample for the presence of a phosphodiesterase 4D gene nucleic acid, comprising one or more nucleic acids comprising a contiguous nucleotide sequence which is at least partially complementary to a part of the nucleotide sequence of said phosphodiesterase 4D gene nucleic acid, and which is capable of acting as a primer for said phosphodiesterase 4D gene nucleic acid when maintained under conditions for primer extension.

57. The use of a nucleic acid which is 100 or fewer nucleotides in length and which is either: a) at least 80% identical to a contiguous sequence of nucleotides in SEQ ID NO: 1 which may optionally comprise at least one polymorphism as shown in Table 9, 10 or combination thereof; b) at least 80% identical to the complement of a contiguous sequence of nucleotides in SEQ ID NO: 1 which may optionally comprise at least one polymorphism as shown in Table 9, 10 or combination thereof; or c) capable of selectively hybridizing to said phosphodiesterase 4D gene nucleic acid, for assaying a sample for the presence of a phosphodiesterase 4D gene nucleic acid.

58. The use of a nucleic acid which is 100 or fewer nucleotides in length and which is either: a) at least 80% identical to a contiguous sequence of nucleotides in SEQ ID NO: 1; b) at least 80% identical to the complement of a contiguous sequence of nucleotides in SEQ ID NO: 1 which may optionally comprise at least one polymorphism as shown in Table 9, 10 or combination thereof; or c) capable of selectively hybridizing to said phosphodiesterase 4D gene nucleic acid, for assaying a sample for the presence of a phosphodiesterase 4D gene nucleic acid that has at least one nucleotide difference from SEQ ID NO: 1 which may optionally comprise at least one polymorphism as shown in Table 9, 10 or combination thereof.

59. The use of a nucleic acid which is 100 or fewer nucleotides in length and which is either: a) at least 80% identical to a contiguous sequence of nucleotides in SEQ ID NO: 1 which may optionally comprise at least one polymorphism as shown in Table 9, 10 or combination thereof; b) at least 80% identical to the complement of a contiguous sequence of nucleotides in SEQ ID NO: 1 which may optionally comprise at least one polymorphism as shown in Table 9, 10 or combination thereof; or c) capable of selectively hybridizing to said phosphodiesterase 4D gene nucleic acid, for diagnosing a susceptibility to stroke.

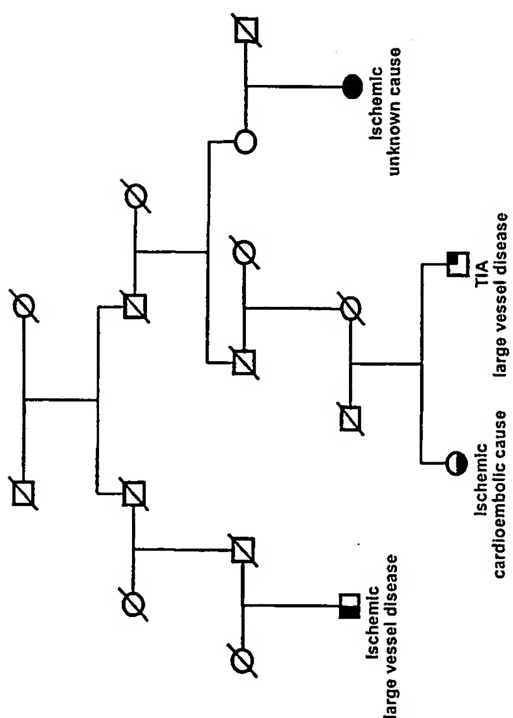

Ischemic
unknown cause
TIA
large vessel disease
Ischemic
cardioembolic cause
Ischemic
large vessel disease

Fig. 1A

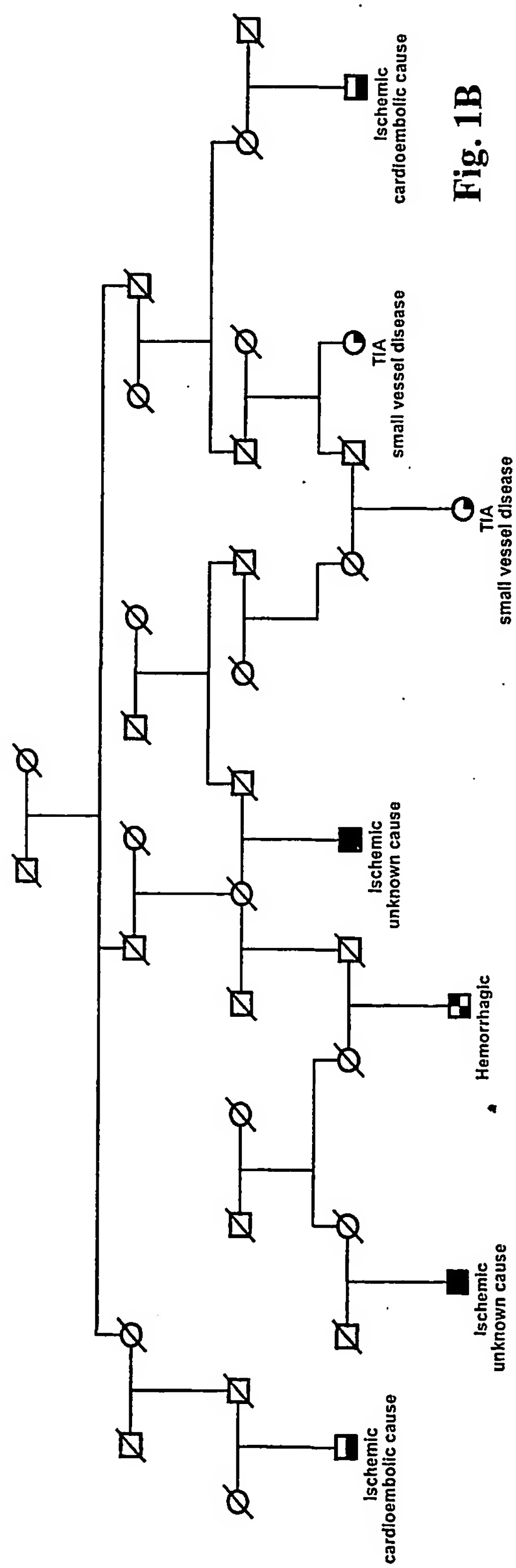

Ischemic
cardioembolic cause
TIA
small vessel disease
TIA
small vessel disease
Ischemic
unknown cause
Hemorrhagic
Ischemic
unknown cause
Ischemic
cardioembolic cause

Fig. 1B

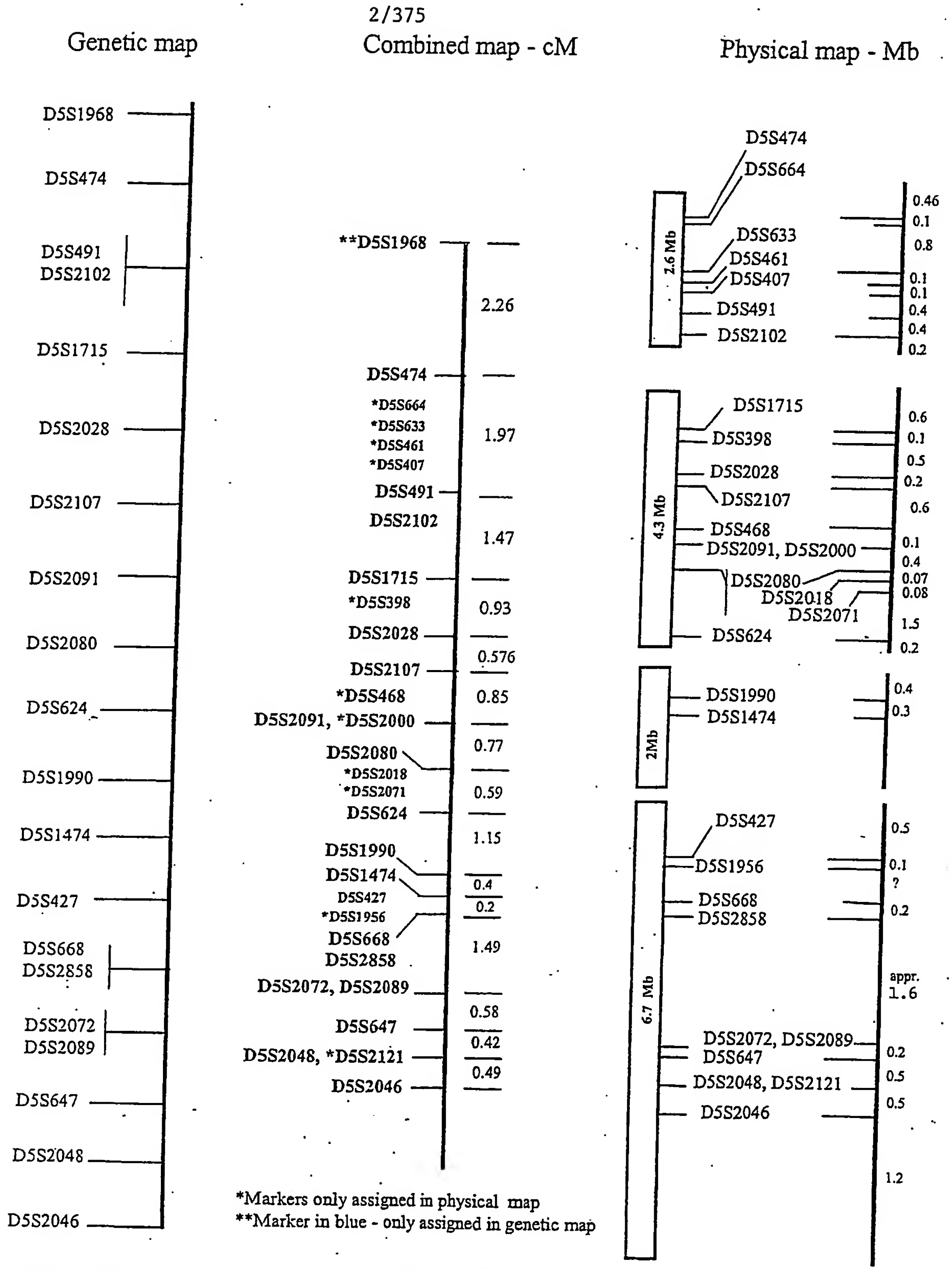


Fig. 2A Fig. 2B Fig. 2C

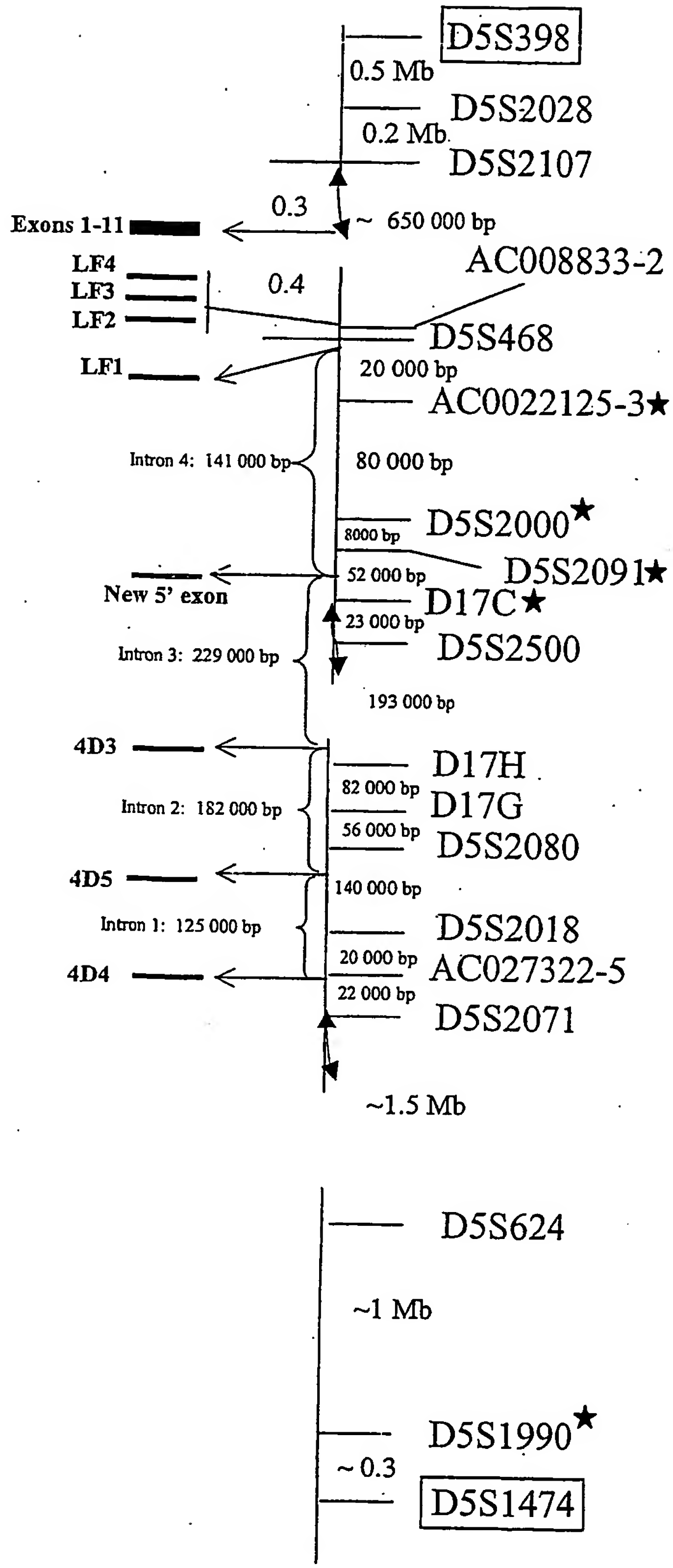

D5S398
0.5 Mb
D5S2028
0.2 Mb
D5S2107
0.3
~ 650 000 bp
Exons 1-11
LF4
LF3
LF2
0.4
AC008833-2
D5S468
LF1
20 000 bp
AC0022125-3★
Intron 4: 141 000 bp
80 000 bp
D5S2000★
8000 bp
D5S2091★
52 000 bp
New 5' exon
D17C★
23 000 bp
D5S2500
Intron 3: 229 000 bp
193 000 bp
4D3
D17H
82 000 bp
D17G
Intron 2: 182 000 bp
56 000 bp
D5S2080
4D5
140 000 bp
Intron 1: 125 000 bp
D5S2018
20 000 bp
AC027322-5
4D4
22 000 bp
D5S2071
~1.5 Mb
D5S624
~1 Mb
D5S1990★
~0.3
D5S1474

Fig. 3

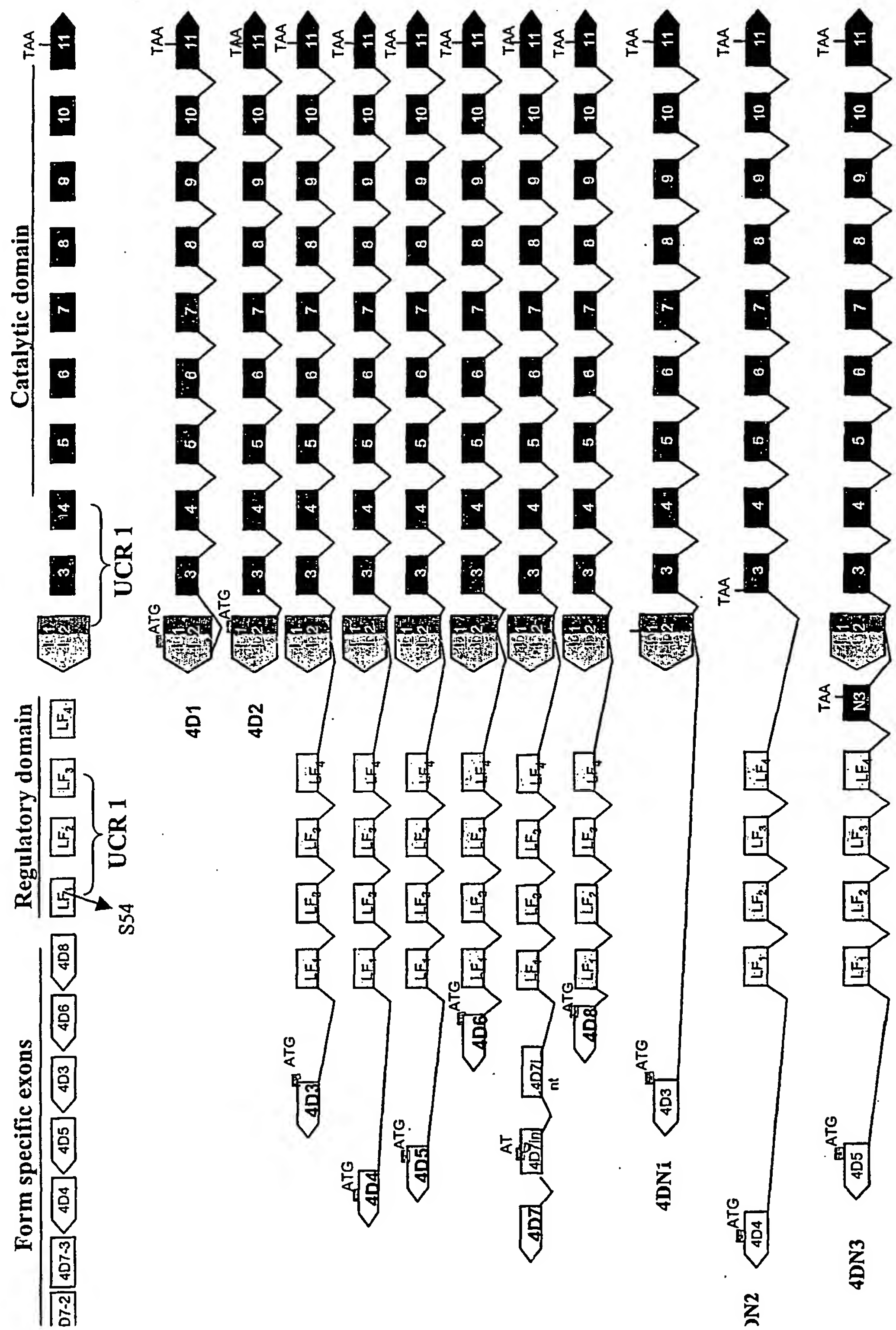

Form specific exons
Regulatory domain
Catalytic domain
UCR 1
UCR 1
S54
TAA
ATG
4D1
4D2
4DN1
4DN2
4DN3

Fig. 4

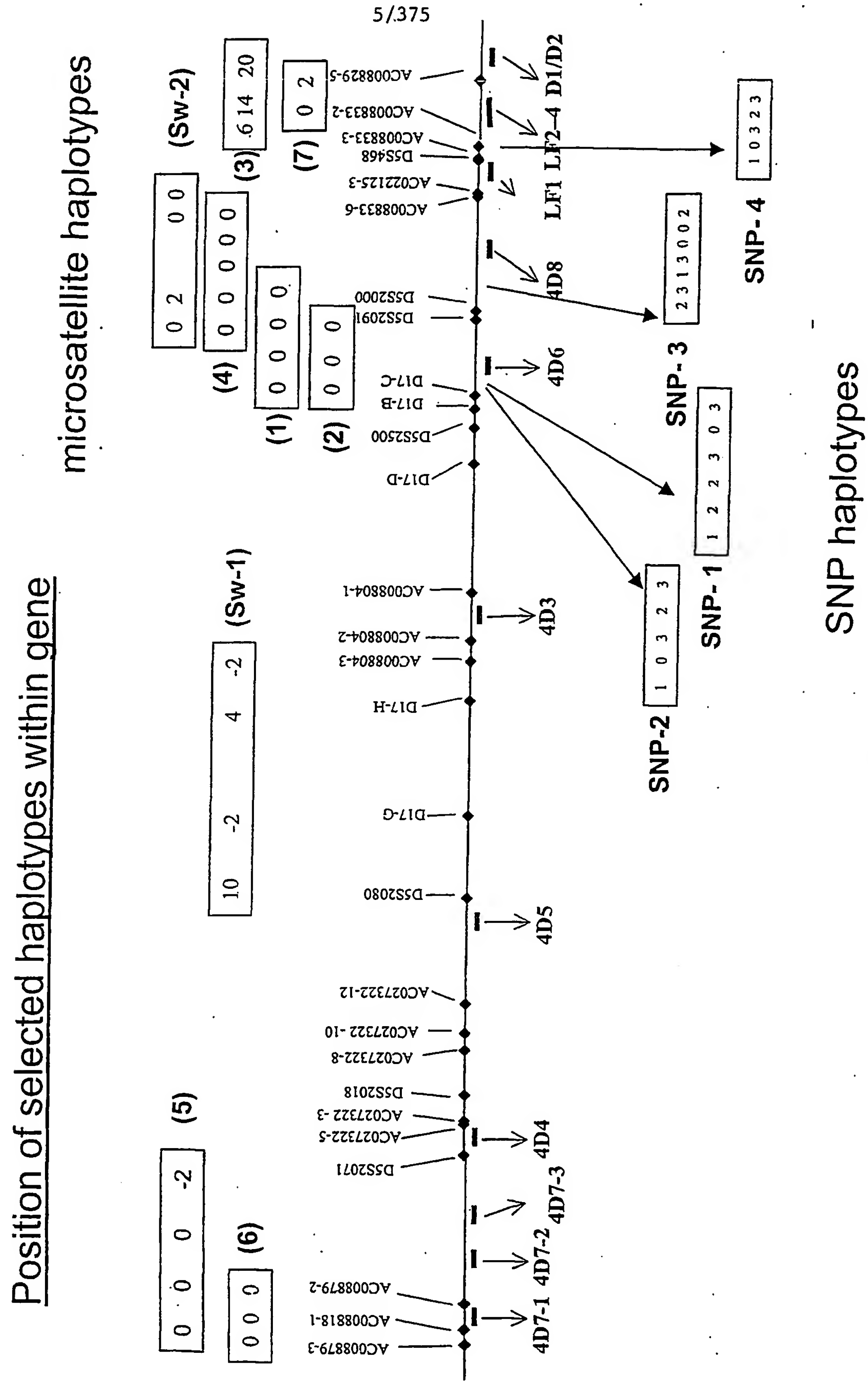

Position of selected haplotypes within gene
microsatellite haplotypes
SNP haplotypes
(Sw-1)
(Sw-2)
(1) (2) (3) (4) (5) (6) (7)
SNP-1
SNP-2
SNP-3
SNP-4
D1/D2
LF2-4
LF1
4D8
4D6
4D3
4D5
4D4
4D7-3
4D7-2
4D7-1
AC008829-5
AC008833-2
AC008833-3
D5S468
AC022125-3
AC008833-6
D5S2000
D5S2091
D17-C
D17-B
D5S2500
D17-D
AC008804-1
AC008804-2
AC008804-3
D17-H
D17-G
D5S2080
AC027322-12
AC027322-10
AC027322-8
D5S2018
AC027322-3
AC027322-5
D5S2071
AC008879-2
AC008818-1
AC008879-3

Fig. 5

>Contig_2 (1,1691140)
CATTTTTTGAAAGAACATCTGAAAGACAAAATGGGGAATGGCGAGTCTGTCTAATAAACCATTTTGAGAAAACTGGATA
TTCATATAAAGAAGTATAAAGAGGACTGTTATGTTGCACAATACACAAAAATCAACTCAAAATAAATTAATGACCTAAA
CTTAATATCAGAAATGATGAAACTTTTAAAAGAAAACATAGGGTGAATGTATGTTTAGGGAAACTCAAATTTATGTTCA
CAGGTTGCAAAAAGAAAAATATGAGAAAAACATAGAGGAAAATGATTCTGCCAATAAAGTGAGTTGGAAATAATTTTTC
TGTTTTCACAAAAATCATTGCTAACAAAAGCAAAAACAAGTGTGGGACTATAGAAAACTGATGAGCTTCTGCATAGGAA
AGAAAAGAATGAACCAATACAGAAGGCATCCAGTAGATTGGGACAAAATTATGGGGGATTATATATCTGAAAGGGTTGT
TATCTAACATGTATAAGAAATTACCACTACTAAGTAGGAAAAACAACAACACAAAACAACAAATAACCAGATGGAAATT
GGGCAAAGAACCTGAATAGATGTTTCTGAATAGAAGACATGAATTTGACTACCAGGTAAAAGAAAAGGTTCTCAACATA
CCTAATCATCAAGAAAATGTACATTAAAACTCACTGAGATATCTTCTCCACTCTAATTGGAATTAATGTTACAAAAAAG
AAACAAATTTTTTACAATGAAATGATCAGTGTGGAGTTGGATGAAGGGGTACTATTACACTACTACACAGTGTAGGGTG
GAATTTAAGTCAGTATACACACTATGAAAAATAGTTGGAGTTTGCTCAAAAAATAAAATACAACTATCATTTGCTGTAG
TAATCCCACCACTGAATATACATTTTAAGAAAATGAAATCAGTATATTGAAGAGATACGTGAAATCCTACATTTCTTGA
CACATTATTCACAGCACTCAAGATGTGGAATCAACCTACCTGTCCAGGAACAGATGAAGAGATAAAGAAAATGCAGTGT
GTATACACAGTGGAATGCTCTTCACCATAAAAAATTCACGGAATCATGTCATTGCAGCAACATGGTGGACAATGTAAGA
AAAGCTCCCCGGAGAAGCTGTACAGAAGCTGCCTCCTCAGCAGTCAGGGCCAGGGACCGGAGCTGTTTTTACCCCAGGA
CAGGGCCGGCCCCAAGTCATCCCAGAGCTGCCATGGCACCCCCTCAGTCGGGTCCTGAGGAATCCTACACAAGCTACTT
ATATCAGTGATCACTAGGATAATCCATAGAACTTTTGGGAAAGAAGTTTAAGACCTTTCTCCCACCATTTCAGCAGGAT
AAATTCCAACTGGATTAGAAAATGAAATGTTAATAATGCAAATAAGTACATATTTATATCTGTATATAAAATACAGTTG
ATATTTGCCTGGTGTTTAGGTGTCTAAAGGACTTTCTAAGCATAAAAGCAAAAAAAAGTCATAAAAATGCTATAGCAGT
TTGAGACTCTATGCAGGAAAGGGCATCATCACGTGCATGGATGAATCTGTATCTAATTTTAAACAATTTCCAATGGTGC
CTGTTTCCTTTTCTTTGAAAATCTCTGGAGAAATAGTTCCTCTTGCTGTGTCTTTCTTTAGGCAAGAATTTTTACTAAT
TGATGTGTAGTCTGAATCCTGGCTAAGTATAAACCTTTTATTTTTTATACCTGTTCTTAGTGAAAATGAAACTGTGACT
TTTTTTTTAATTCCTTTTGTTGGTCAAAAACTACAATTAACTCTTCTGAGTTTCTTCTCTGGCTGAACAAACAATGGTC
CCATTGGCCTTTCAGGGAACTCCAGGCCGTCTCAAAAACCTTCATGTTTCATTTCTTTTCAGAGCTCCCAAAAAGAATA
GCTTGCTCTTGACGTTGTACATGTTAGTGGAATGATCAGGACTACTTTGCAAAGATGAAAAATTTGTGTTTCTAGTGAT
TTGAAAATAGAAATCTGATGTAACTATTAGATATTGGGAAAGAAGGTGACGAAGGTAGGTATCACCGAAAGCACTTAAC
AATTCTGAATAATTCTGTACTTGATTGCATTTATGTGTATCATAGGAACAGTTGGGTTTCCTTGAGTGTTAAATTATTT
ATTCACTTATTCCACTTCAAGCCAGCTAAATGATTGTTTCCCTGATGGCAAAAGTCTCAGATTGATTGCACAGTTTATT
TGGTTGGATTGTTTATGCTCTTTTTATTATTTATTCTTATTTCACCAATGAAAATATCACTAAGTTCTTTGGTTTGTTG
ACCTGATTGTACCTACTTTGACAAATCACTGCCTTTCTGGACCCAGTTTTCTCATTAAGTGGCAGTGATAACCTGTCAT
ACTTACAGATATAAAAACATGAAAGTTAAAGTATTGGGTAATACTTTCCTCCTATCTTTTTTTTATTTTGAAAAAGATA
AAAAATTGGCATAATGTATTAGTTAAGATGGAATAATCATATGTTGATATCCAGCCATTTCTTCTCTCAAATGATAGGA
AGATTTTTATGTGAAACTACTTGTGAGAGATCTTAACAATTTGTAGTTAGAGAAAGCACTATTATATCATTTGGAAATG
CAAGAAACAAGTTACCTTTGGGGCAACAGAGGCCCTTGTCATTTTCTCAAAAGAAGGAAGCATCAGCATTTTGATGATG
ATGTTGAGATTGTAGAAATGATGAAGGTGAAAAAGTTATTCTAGCTTATGTTTAGCAAAATGAAATGAACCCAAATAAT
AAAACAGTTACAACATTGAATCTCTTTGGGAGAAAAAAAAAAGATAGAATGCTAATGTCCTTCAGAACTTCTTAAACCA
GAACCTTAAAAAAAAGAGAAGCTTTTAAAAAATCATAATAGTTTATGATCTTGAAGGGTTTAAAAGTATTTGATGAAGA
TGTCTTTTGAATTTATTTGTAGGTCTTCTTGTGTATTTAAAAGCTAAGTTATCTTGTAATCATTTTTTTCTATACCTTT
GTCAGTAACCTCTTAGTGATGAAATAAAAAAGATTAGGTAATCATCCAGCAATGGGGAAGAAGTTAAGGAACAAAGAGC
TCAGATTAAACTAGTTTTAGAATCTAAGCATTTCTGCATGAATTTGAATCATGGAAAACAAAATGTAGCACTCCAACA
TTTGATGCAAAACTAAAAGTGGAATACTGCTTTGATATTTGAATGAATTGAAAAATAATTAACATCCTTGGAACTGTAT
GTAAAGAAGGACTTCACAAGTATTATAGATACCCCCAACCTCAGCCCTTTTCCCATGTATCTCTTTGATCACATCCCTA
CCTCATAGATCACCCATGTGCTGAAGACTTTCAGTTCTGTATCTTCATTCTAGATCTCCTGAACTCAAGATCAGAATAT
CTTTCTGACTTCTGACTGTGTATTTCTGGATGTTATACAAGAACCTCAGCTCAAACTCAGTATTCCCTAAACCATTGTT
TTTGAAACTTTATGTTGGATGTGAAATCTGTATTGTAGAATAACATTAAAAAAAGAAAGAATAGTATGCAAAATATCAG
AGTGCATTGTATGTAGCAAGAGTAGGTATTTTCGTAAACTTTTTGTTTTAATTAAACACATATATATTTATTATTGCAG
TGTAAAATGTATTTCTTAATTTGGATAAGTGTTAGTGAGGATGTGGATAAATTGGAACTCTTGTACATTACTGGTGGGA
CTATAAAATGGCACTGCCGTTTGGTAAAACAGTTTGGCAGTTCCTCAAAAAGTTAAACATACAGTTAACATGTGATATA
GAAATTTCACTTTTAGATGTACACCCAAAAGAATTGAGAACATATGTTCACACAGCAACTTGTACACAAATGTTCATAG
CAGCATTACTCAGAAGAGCCAAAAAGTGGAAACAACTGAAATGTCCATCAAGTGATGAAGCAGTAAAATGTAGTATATC
CGTACAATGAAATATTCAGCCATAAAAAGGAATGCAATGTTGTTGCATGCTACAACAACTTGGATGAATCTTGGAAACA
TTATTCTAAGTAAAAGATTCCATTTTTATGAAATGTCCAGAATAGGCAAATCTATAGAGACAAAGATAAGTGGTTTCCA
GGGGTTGTGGGGAGGAGAGAATGGGAAGGTGACAAAATGTTCTGGATTAGATAATAGGGATGGGTATAACTTAGTGACT
ATACAAAAAAAAATCACTAGAATCATATACTTTAAAAAAGATATTCCCATAAAAAAAAGAACAAGCAAGAAAAAAATAACT
AAATTTGACTTTAGGAGTTAAAAAGAATATAGTATCTCAAATGAAAATTTTGCTGGATAGGATTAGGGGTAGATTAGAC
ACTCCAGAAGTTAAAGATCAGTGAGCTTGAATACACACAATAGAAGCTAGTCTAAACAAAGCACAGAGAGAAAAAAGAA
CAAAACAAACCTCCCACAACAAAACAAAACAAAAGCCAACCAAAAATACAGCCTCAATGACCTATGGAAATATTTAGC
AGTCTAATATACATGTAATTGGAATCCCTGAAGGAGGAGGGGGGTAGAATGTATCTTTTTTTTGTCCCCTATGACTGCTG
TTAAGATTTTATTATTGATTTTTAGGAATTGCATTATATCTTGGTGTGGTTGTTTAAACAGAGGTATAGCTTATCAACC

Fig. 6.1

AATGGTGGAGCTAAAATAGAATACTTGAAAGTACTTATGGATGCACAGAATCTAAGATGGCCCCCAATTTTCCTGCTAC
CTTGTACCCTTGAGTATATGTGGGACCTGTTACTTGCTTCTAACCAATAAAATCTCACACCAGTTAGAATGGTGATTAT
TAAAAAGTCAGGAAACAACGGATGCTGGAGAGGATGTGGAAAAATAGGAACGCTTTTACACTGTTGGTGGAAGTGTAAA
TTAGCTCAGCCATTGTGGAAGACAGTGGCAATTCCTCAAGGATCTAGAACTAGAAATACCATTTGACCCAGCCATCCCG
TTACTGGGTATATAACCAGAGGATTATAAATCATTCTACTATAAAGACACATGCACACGTATGTTTATTGCGGCACTGT
TCACAATAGCAAAGACTCGGAACCAACCCAAATGTCCATCAGTGATAGACTGGATGAAGACAATGTAGCACATATACAC
CAGGGAATACTATGCAGCTATAAAAAATGACGAGTTCATGTCCTTTGCAGGGACATGGATGAAGCTGGAAACCATCATT
CTCAGCAAACTATCACAAGAACAGAAAACCAAACACCACATCTTCTCACTCATAAGTGGCAGTTGAACAATGAGAACAC
ATGGACACAAGGCAGGGAACATCACACACCGGGGCCTGTGTGGGGGGTCGGGGCAGGGGGAGGGATAGCATTAGGAGA
AATACCTAATGTAGTTGACATTACTTTGGTTTGACATTACTTTGGTTTGTGGGTGCCACAAACCACCATGGCACATGTA
TACCTGTGTTACAAACCTGCACGTTCTGTACATGTACCCCAGAACTTAAAGTATAATAATAATAAAATAACATGTATGT
CAAGGGTGACATGTAATTAAGCAAAGCTCAGTAAATTTAAAATGATTGAAATTGTACTAAGTTTTCTGACCACGCTAGA
ATTAAGCTAGAACTCCAGGTCCAGATGGCTTACTGATCAATTTTACCCAACACTTTGGAATGAATAATGACATTTGTAT
GAAAGTCCTTTCAGAAAATAGAAGATGAGGGAATATTTCCTGAACCATTTTATGAGGCCAGTATTGACATGGGTAATAA
AACCAACAAATACATTACACAAAAAAATTGTAGCACATGATATCCCTGATAAAACCAAATGCAAAAATACATTAAATTT
GCAAATTGAATGCAGCAGTAGATAAAAAGGACAATAATACATCATGGCCAAGTAGGGTTTATCCCAGCAAGGTAAGACT
GGTTTAACATCTAAAATCAATCAGTATAATTCATCATATCGATAGGATGAAGGAAAAAAACTCATGTGACCATCTCAAC
GATTGCAGAAAATGTATGTGACAATATTCAACACCCATTAATGATAAAAATGTTAAATACATTACAATAGAAGAAAACT
TCCTCAGCCTTATCAAGGGTACCTGTGAGAAAATTATGGATAACATTTTTCTTAATGGTGGTAGACTGAATGCTTTCCC
CTATGGTCAGAAAAAGACAAAACTCATCACTGCTATACAACATTTCATGAGAGGTCAGCAGTGCTTTCATGCCTTAAAG
GCATGAAAATGAAATAAGTGATTTAAGATTGGAAAGAAGAACTAAAACTACGTTTGCTGATATCAAAAATCCCAAGAAA
TCTGCCCCCAAAAAGCACTTATGAATTAATAATTAAACTTAACAAGGAAGCAGGATATAAGACCACTGTATAAAAATCA
ATTGGAAAACTAAAACAAAACCCCAAAAAACCCAACCTAATAATCTGTTTCCAATAACACCAAAAAACATGGAATACTC
AGGGATGAATTATAAGTAGGGATAAACAAGGTGTGTGCAAGACCTGACAATGAAAACTATTAAATGTTGTTGAGAGGAA
CTAAGGATGACTTAAATAACTGGAGAGACATACTATGTTCATGGACTGAAAGATATGCAATATTGATAAGATGTCAATT
CTTCCAAAATTGATACATGGATTATTTAGCTTGGTAAAAATCCAAGCTTTTTTTTGTAGAGTTTTCAAGCATTTTGTAA
AATTTATTTGGAAATACAAATAATCTGAATAGCCAAAACAATGTGGAGAAAAGGAGAAAAAAATTAGAGAACTTACATTA
CCTGTTTTTAAGACTTACTATAAAATCTTACTTTCAGGTGTGGTATTGGTATCTTACTGTAAAGTCTTCCTGTAAAGTA
TATTGATATTTAGTGTGGTGTTGGCATAAGGATAGATATTTAGGCCTATGGAATAGAATAGAGGGTCCAATAGTAGATT
CATGTATCTGTAGTCAAGTGATTTTCAGCAAAGAAGCCAAGGGAAGGGATCATCTTTTCAGGGTAGTGTTGGAACAACT
GGATATCTATTATGGAAAAAGTGAACCTTTATACTGTATACTGTATGCACTCAAATTTTACTTTGGACTGGATCACAGA
TTCAAATATAATAGAGATATCTAAAAACCTTCCAAAAGAAAGTATAGGAGAAAAAATTCTTGCAATTTTGCATAGACAAA
GATATCTTAGTTCCTAGAAAACATAACCATAAAATAAAAATTACATCAAATAGACTTCATCAAAATTGGAAATTTCTAC
TCTTTGAAATATACTGTTAAGAAAATGAAAAGACAAGAAAATTCCCATTACATAGCTCACAAAATACTTATAACTAGGA
TATGTAGAGAACACTTCAATACTAAGACAATGCAATAAAAAAACAAAAAAACTGGACACAACAAGAATATATATGAAAT
ACTCATAAGCACATGAAAAGATTATTAACATCATTAATCATACAGGAAATGCAGATTAAAACCACAACGAGATACTACC
ATGTACACACTAAAATGGCTAAAGCCAAAGACACTGACATAAATTTTTGGTGAGTGTGGGGCTCCTGGAGCCCTCAGAC
ATTGCTGATAGGACTGTGAAATGACACAGCCACTTTGGAAAATGAGTTCATCATTTCTAACTAAGTTAAACATACACAT
ACCTTAATTTCATTCCTAGGTATTTATCTAAGGGATAAGAACACATGTGTTCACACAAATTGTGTGGTGTTCATAGCAG
CTTTATTCATAATATCAAAACATTGGAAACAATCTACATGTCTATCAGCAAGTGAATGGAAAAATATTTTGTAGTATAT
CCATGCAATGAAATATTACCCAGCAATAAAAATAAACTATGGGTACATACAACAATATAAATGAATCTCAAAAATATGC
CGAGTGATAAAAGCCATTCTGGTTCCATTTACATGAAATTCTAGGAAAGGGGAATCTATGGAGGCAGAAAGCAGGTCAG
AGGTTGCTTTGGTCTAGGGGATCGAGAGGCCTTACTGCCAAACAGCACCAGTAGATTCTTTGGGGGGCGGAAGAGTTT
TATATTTCATTGTTGTGCTGTTTACATGGGGATATGCATTTGTCAAAACTCACTGAGCTCTACATTTAAAATGGGTAC
ATTTTTGTAGTATTTTAATTATAAATCAAAATTGAACAAAAAAGTAACACATGTTATTGAGGACTTTTTTTTTTAAAG
CATCATGTTTTATTTTTATTTTTTGCAGACAAGGGTTTTATTTAATATAACTCATAAATTACATTGCCAATATCCTAAA
GGTAATAAAGAAGTCAAAAGCACTATTTGTGAAAATCAGTATATCATATGACGGTAAGCATAGTTGCTATTCACCAAAA
ACGTTCAGAAAACATTTGAATTCATTGTCTGAAAGAGCTTAGGCTCAAGACTTGAATTACTAAGAAAAGAAAGTAGTAT
ATAATTATACAAAGATGAGTAATAACCAAAAACTGTTCTTTAATGCATGTTTGTTTTTCCTGAAAGCCATTTCTTTCTT
TTTTTCTTTTAATACTTTAAGTTCTAGGGTATACTTTAAGTTCTAGGGTACATGTGCACAACATGCAGATTTGTTACAT
ATGTATACATGAGCCATGTTGGTGTGCTGCACCCATTAAGTCGACATTTACATTAGGTGTGTCTCCTAATGCTATCCCT
CCCCACTCCCCCTACCCCAGGACAGGCCCCGGTGTGTGTTATATTCCCCTTTCTGTGTTCAAGTGTTCTCATTGTTCAATG
AGTGAGAATATGAGGTGTTTGGTTTTTTGTCCCTGCGATAGTTTGCTGAGAATAATGGTTTCCAGCTTCATCCATGTCC
CTACAAAGGACATGAACTCATCCTTTTTTATGGCTGCATAGTATTCCATGGTGTATGTGTGCCACATTTTATTTTTATT
TTTATTATTTTTATTTTTAAAATTTTATTATTATACTTTAAGTTAGTGTACATGTGCACAACATGCAGGTTTGTTACAT
ATGTATATATGTGCCATGTTGGTGTGCTGCACCCATTAACTCGTCATTTAACATTAGATATATCTCCTAATGCTATCCC
TCCCCCTACCCCGACCCCACAACAGTCCCCGGTGTGTGATGTTCCCCTTCCTGTGTCAATGTGTTCTCATTGTTCAATT
CCCACCTATGAGTGGCAACATGTGGTGTTTGGTTTTTTGTCCTTGAGATAGTTTGCTGAGAATGATGGTTTCCAGTTTC
ATCCATGTCCCTACAAAGCACATGAACTCATTATTTTTCATGGCTGCATAGTATTCCGTGGTGTATAGTGCCACATTTT
CTTAATCCAGTCTATCACTGATGGACATTTGGGTTGGTTCCAAGTCTTTGCTATTGTGAATAGTGCCTCAATAAACATA

Fig. 6.2

CGTGTGCATGTGTCTTTATAGCAGCATGATTTATAATCCTTTGTGTATATACCCAGTAATGGGATGGCTGGGTCAAATG
GTATTTCTAGTTCTAGATCCTTGAGGAATCGCCACACTGTCTTCCACAATGGTTGAACCAGTTTACAGTCCCACCAACA
GTGTAAAAGCATTCCTATTTCTCCACATCCTCTCCAGCACCTGTTGTTTCCTGACTTTTTAATGATCGCCATTCTAACT
GGTGTGAGATGGTATCTCATTGTGGTTTTGATTTGCATTTCTCTGATGGCCAGTGATGGTGAGCATTTTTTCATGTGTC
TTTTGGCTGCATAAATGTCTTCTTTTGAGAAGTGTCTGTTCATATCCTTCGCCTACTTGTTGATGGGGTTGTTTGTTTT
TTTCTTGTAAATTTGTTCGAGTTCATTGTAGATTCTGGATATTAGCCCTTTGTCAGATGAATAGATTGTGAAAATTTTC
TCCCATCCTGTAGGTTGCTTGTTCACTCTGATGGTAGTTTCTTTTGCTGTGCAGAAGCTCTTTAGTTTAATTAGATCCT
GTTTGTCAATTTTGGCTTTTGTTGCCTTGCTTTTGGTGTTTTAGACATGAAGTCCTTGCCCATGCCTATGTCCTGAATG
GTATTGCCTAGGTTTTCTTCTAGGGTTTTTATGGTTTTAGGTCTAGCATTTAAGTCTTTAATCCATCTTGAATTAATTT
TTGTATAAGGTGTAAGGAAGGGATCTAGTTTCAGCTTTCTACATATGGCTAGCCAGTTTTCCCAGCACCATTTATTAAA
TAGGGAATCATTTCCCCATTTCTTGTTTTTGTCAGGTTTGTCAAAGATCAGGTAGTTGTAGATATGTGGCATTATTTCT
GAGGGCTCTGTTCTGTTCCATTGGTCTATATCTCTGTTTTGGTACCAGTACCATGCTGTTTTGGTGACTGTAGCCTTGT
AGTATAGTTTGAAGTCAGGTACCGTGATGCCTCCAGCTTTGTTCTTTTGGCTTAGGATTGATTTGGTAATGCGGGCTCT
TGTTTGGTTCCATATGAACTTTAAAGTAGTTTTTTCCAATTCTGTAAAGAAAGTCATTGGTAGCTTGATGGGGATGGCA
TTGAATCTATAAATTACCTTGGGCAGTATGGCCATTTTCACAATATTGATTCTTCCTACCCATGAGCATGGAATGTTCC
TCCATTTGTTTGTATCCTCTTTTATTTCCTTGAGCAGTGGTTTGTAGTTCTCCTTGAAGAGGTCCTTCACATCCCTTGT
AAGTTGGATTCCTAGGTATTTTATTCTGTTTGAAGCAACTGTGAATGGGAGTTCACTCGTGATTTGGCTCTCTGTTTGT
CTGTTATTGGTGTATAAGAATGCTTGTGATTTTTGCACATTGATTTTGTATCCTGAGACTTTGCTGAAGTTGCTTATGA
GCTTAAGGAGATTTTGGGCTGAGACGATGGGGTTTTCTAGATATACAATCATGTCATCTGCAAACAGGGACAATTTGAC
TTCCTCTTTTCCTAATCGAATACCCTTTATTTCCTTCTCCTTCCTGATTGCCTTGGCAAGAACTTCCAACACTATGTTG
AATAGGAGTGGTGAGAGAGGACATCCCTGTCTTGTGCCAGTTTTCAAAGGGAATGCTTCCAGTTTTTGCCCATTCAGTA
TGATATTGGCTGTGGGTTTGTCATAAATAGCTCTTATTATTTGGAGATACATCCCATGAATACCTAATTTATTGAGAGT
TTTTAGCATGAAGGGCTGTTGAAATTTGTCAAAGGCCTTTTCTGCATGTATTGAGATAATCATGTGGTTTTTGTCTTTG
GTTCTGTTTATATGCTGGATTACGTTTATTGATTTTCATATGTTGAACCAGCCTTGCATCCCAGGGATGAAGCCCACTT
GATTATGGTGGATCAGCTTTTTGATGTGCTGCTGGATTCGGTTTGCCAGTACTTTATTGAGGATTTGTTCATTGATGTA
CATCAGGGATATTAGTGTAAAATTCTCTTTTTTTGTTGTGTCTCTGCCAGGCTTTGGTATCAGGATGATGCTGGCCTCA
TCAAATGAGTTAGGGAGGATTCCCTCTTTTTCTATTGATTGGAATAGTTTCAGAAGGAATGGTACCAGCTCCTCCTTGT
ACCTGTGGTAGAATTTGGCTGTGAATCCGTCTGGTCCTGGACTTTTATTGGTTGGTAAGCTATTAATTATTGCCTCAAT
TTCAGAGCCTGTTATTGGTCTATTCAGAGATTCAACTTCTTCCTGGTTTAGTTTTGGGAGAGTGTATGTATCGAGGAAT
TTATCCATTTCTTCCAGATTTTCTAGTTCATTTTCATAGAGGTGTTTATAGTATTCTCTGATGGTAGTTTGTATTTCTG
TGGGATAGGTGGTGATATCCCCTTTATCATTTTTTATTGCATCTATTTGATTCTTCTCTCTTTTCTTCTTTATTAGTCT
TGCTAGCAGTCTATCAATTTTGTTGATCTTTTCAAGAAACCAGCTCCTGGATTCATTGATTTTTTGAAGGGTTTTTTGT
GTCTCTATTTCCTTCAGTTCTGCTCTGATCTTAGTTATTTCTTGCCTTCTGTTGGCTTTTGAATGTGTTTGCTCTTGCT
TCTCTAGTTCTTTTAATTGTGATGTTAGGGTGTCAATTTTAGATCTTTCCTGCTTTCTCTTGTGGACATTCAGTGCAAT
AAATTTCCCACTACAAACTACTTTGAATGTGTCCCAGAGATTCTGGTATGTTTTGTCTTTGTTCTCATTGGTTTCAAAG
AATATCTTTATTTCTGCCTTCATTTTGTTATGTACCCAGTAGTCATTTAGGAGCAGGTTGTTCAATTTCCATGTAGTCG
AGCGGTTTTGAGTGAGTTTCTTAATCCTGAGTTCTAGTTTGATTGCACTGTGGTCTAAGAGACAGTTTGTCATAATTTC
TGTTCTTTTACATTTGCTGAGGAGTGCTTTACTTCCAACTATGTGGTCAGTTTTGGAATAGGAGTGGTGTGGTGCTGAG
AAGAATGTATATTCTGTTGCTTTGGGGTGGAGAGTTCTGTAGATGTCTATTAGGTCCACTTGGTGCAGAGCTGAGTTCA
GTTCCTGGATATCCTTGTTAACTTTCTGTCATGTGGATCTGTCTAATGTTGACAGTGGGGTGTTGAAGTCTCCCATTAT
TATTGTGTGGGAGTCTACGTCTCTTAGTAGGTCTCTAAGGACTTGCTTTATGAATCTGGCTGCTCCTGTATTGGGTGCA
TATATATTTAGGATAGTTAGCTCTTCTTGTTGAATTGATCCCTTTATCATTATGTAATGGCCTTCTTTGTCTCTTTTGA
CCTTTGTTGGTTTAAAGTCTGTTTTATCAGAGACTAGGATTGCAACCCCTGCCTTATTTTGTTTTCCATTTGCTTCGCA
GATCTTCCTCCATCCCTTTAATTTGAGCCTATGTGTGTCTCTGCATGTGAGATGGGTTTCCTGAATACAGCACACTGAT
GAGTCTTGACTCTTTATCCAATTTGCCAGTTTGGGTCTTTTAATTGGAGCATTTAGCCCATTTACATTTAAGGTTAATA
TTGTTACGTGTGAATTTGATCCTGTCATTATGATGTTAGCTGGTTAATTTGCCTGTTAGTTGATGCAGTTTCTTCCTAG
CCTCGATGGTCTTTACAATTTGGCATGATTTTGCAGTGGCTGGTACCGTATGTTCCTTTCCATGTTTAGTGCTTCCTTC
AGGAGCTCTTTTAGGGCAGGCCTGGTGGTGACAAAATCTCTCAGCATTTGCTTGTCTGTAAAGGATTTTATTTCTCCTT
CACTTATGAAGCTTAGTTTGGCTGGATATGAAATTCTGGGTTGAAAATTCTTTCCTTCAGGAATGTTGAATATTGGTCC
CCACTCTCTTCCGGCTTGTAGGGTTTCTGCCGAGAGATCAGCTGTTAGTCTAATGGGCTTCCCTTTGTGGGTAACCTGA
CCTTTCTCTCTGGCTGCCCTTAACATTTTTTCCTTCATTTCAACTTTGGTGAATCTGACAATTATGTGTCTTGGAGTTG
CTCTTCTTGAGGAGTATCTTTGTGGCGTTCTCTGTATTTCCTGAATTTGAATGTTGGCCTGCCTTGCTAGATTGGAGAA
GTTCTCCTGGATAATATCCTGAAGAGTTTTTTCCAACTTGGTTCCATTCTCCCCGTCACTTTCAGGTACACCAATCAGA
TATAGATTTGGTCTTTTCACATAGTCCCATATTTCTTGGAGGCTTTGTTCGTTTCTTTTTATTCTTTTTTCTGTAAACT
TCTCGCTTCATTTCATTCATTTGATCTTCCATCACTGATACCCTTCCTTCCATTTGATCGAATCAGCAACTGAGGCTTG
TGCATTCATCATGTAGTTCTTGTGCTGTGGTTTTCAGCTTCATCTGGTCCTTTAAGGACTTCTCTGCATTGGTTATTCT
AGTTAGCCGTTCGTCTGATTTTTTTTCAAGGTTTTTAACTTCTTTGCCATGGGTTCGAACTTCCTCCTTTACCTCAGAG
TAGTTTGATCATCTGAAGCCTTCTGCTCTCAACTCGTCAAAGTCATTCTCCATCCAGCTTTGTTCTGTTGCTGCTGAGG
AGCTGCGTTCCTTTGGAGGAGGAGAGGTGCTCTGATTTTTAGAGTTTCCAGTTTTTCTGCTCTGTTTTTCCCCCATCTT
TGTGGTTTTATTTACCTTTGGTCTTTGATGATGGTGACGTACAGATGGGGTTTTGGTGTGGATGTCCTTTCTGTTTGTT

Fig. 6.3

AGTTTTCCTTCTAACAGTTAGGACCCTCAGCTGCAGGTCTGTTGGTGTTTGCTGGAGGTCCACTCCAGACCCTGTTTGC
CTGGGTATCAGCAGCAGAGGCTGCAGAACAGCAGATATTGGTGAACAGCAAATGTTGCTGCCTGATCGTTCCTTTGGAA
GTTTTTTCTCAGAGGAGTACCCGGCCATGTGAGGTGTCATTCAGCCCCTACTGCGGGGTGCCTCCCAGTTAAGCTACTC
GGGAGTCAGGGACCCACTTGAGGAGGCAGTCTGTCCATTCTCAGATCTCAAGCTGCATGCTGGGAGAACCACTACTCTC
TTCAAGGCTGTCAGACAGTGACATTTAAGTCTGCAGAGGTTATTGCTCCCTTTTGTTTGGCTATGCCCTGCCCCCAGAG
GTGGAGTCTACAGAGGCAGGCAGGCCTCCTTGAGCTGCAGTGGGCTCCACCCAGTTCAAGCTTCCCGGCTGCTTTACCT
ACTCAAGCCTGGGCAATGGCGGGCGCCCCTCCCCCAGCCTGGCTGCCACCTTGCAGTTTGATCTCAGACTGCTGTGCTA
GCAATGAGCAAGGCTCCGTGGGCATAGGACCCTCCGAGCCAGGCACGGGATATAATCTCCTGGTGTGCCATTTGCTAAG
ACTGTTGGAAAAGTGCAGTATTAGGGTGAGAGTGACCCGATTTTCCAGGTGCCGTCTGTCACCCCTTTCTTTGACTAGG
AAAGGGAATTCCCTGACCCCTTGTGCTTCCCAGGTGAGGCGATGCGTCACCATTCTTTGGCTCACGCTTGGTGTGCTGC
ACCCACTGTCCTGCACCCACTGTCCGACACTCCCCAGTGAGATGAACCCGTTATGTCAGTTGGAAATGCAGAAATCACC
CGTCTTCTGCGTTGCTCACGCTGGGCACTGTAGACTGGAGCTGTTCCTATTTGGCCATCTTGGTTCCATCCCCCCCTACT
TTTGAGATTTTAAACTTGGGATGCCTTTGATTCATTTTATTCAAGTATTAATTTGAGTAAAAAGTCATGTATGTGCATG
AAGTATTAGCTGCAGTGGTGGTTTTGTTCTTCATAACTTTGCTCATAATAGCTTTGTTTATTTATTTATTCATTTATTT
ATTTTTGAGACAGGGTCTTGCTCTGTCACCCAGGCTGTAGTGCAGTGACATGATCTTGGCTGACAGCAACCTCTGCTTC
CCAGGTTCAAGTGATTCTCCTGTCTCTGCCTCCTGAGTAGCTGGAATTACAGGCATGTGCCACCATGCCTGGCTATGTT
TTGTATTTTTAGTAGAGACAGGGTTTTGCCATGTTGGCCAGGCTGGTCTCGAACTCCTGACCTCAGGTGATCCACCCGC
CTTGGCTGCCCAAAGTGCTGGGATTACAGGCATCAGCCACCATGCCTGGCCTGCTAATAATAACTTTAAAAAACCTAAC
ATTTCATATTTTGATAAATAAATGCAGTACTCATATCCAGTTGAAAGGGAAATACAACATTATTTAATAAACATATTAC
ATCTAAATATTAAAAAATTCCTATCATATGATAAATTAAAAAAAAGAGAAGAGATTAAGCAGGGGCTTAGAAACATAAA
CAAATATAAACAAACTTTACAAAACTGAATGGATTAGCAGGGTGTTGGGGCACATGCTTGTAGTTCCATCTCCTTGGAA
GGCTGAAGCAGAAGGATCCCTTGAACCTAGCCCAGGCAATAAAGCAAGACCCTGTCTCTTAAACAAAACAAAACACAAA
ACAAAACAGAGACAATTGGAGGAAGACAGAAACTAGAAAGAAAGTGTAAAAAAATAAAAACACCCCAAAACTCACAGAA
ATTAAAGTGATTTTTAAAAGTTGGGTTGTTTATTTGTTAACTATGAGCATGACCGCTCTACAGTCAGAAAAGATAAAAT
CAAGGCTCAGATGGGGAAACGCATGGTGCTGCTTTTAGAACCATGCTCAGAAAGATTTGGTGGAGTTTAAACAAACAAG
TTCAGACTTCTGTTGCCCTCTTTTATAGGAGTGAAAGAGAAAGGAAGGAAAGATTTACAAAGGTGTAAATCCCTTTCAT
CCCCTGGACCACAGAGGTGTAGCAGAGAATGGTTCCTGTAAGACTTGAAAACTGAAAGTACAACATAGGTGCAATTTGT
GACTAAGTATCACTGGTACAAAGAACTTAACTGATTGAAATATATCAATAAGTAATCTCTTGGGTGGTCATACAGGAAT
GCTTAAAACCTCAGACCCAATTAATGGCAAAACAATGACCCTACATCTGTTTTTTATGTATACACACACACACACACAC
ACACACACACACACACACACACACACAAATACATATGTAACAACCTTTTTTCATGGACTGTCTTAGTTCATCTCATTTT
GAGGAAATAGTTGTTGAATGACTTCTGTGTGTTTCTGTGACATTGTATTAAGTATTCAAATACAGACTTAAAAAAGTAA
CTTCCTCTTATGGCTATTATATTTTAATATTCCTGAGGCAGATCATTATCGATTACCTGTCAGTCTCCTTGGGGTTTCC
ATGATATCCCCTTGACACATCTCTATTGTTGTCTTCCACATTGCTTTGTGATGGCTTCTGTTCGTTCATCTTCTTCTCC
AGACTGTGAGCTTCTTGATAACAAGATCTTTGTCTCACTGTTTTGGGATTCTCAGATCTTAGCACAGTCCTAGAACATT
TTATGCTCTTTTCAAACCTTCGTTGAATGAATACATTAATGATTCTCAAGTATATATTTCAAGTGTTGACCTGTCCCCT
AAATTCCAGAGCTGCTATCATCATCTTCCTGTTGAATATTTCCATGAGTCTACTATCTTTCACAAACCCAAACTGCTTC
TCTTCCGTGACAAATCAGCAGCCCCTTCTGGCTCCACTGTTTTTGAAGTAGGCCCCCTTAAAGCTGAAGATTCACAGTT
TATTTGTCCATAGTTGCCCTATCTTAGCACCCTATTTTAAAATGTGTTTTTGTTATGCAGACTTTGTAAGGGTCAAATC
ATGGCCTTCAAATCGATTTAGAGAAATTGAAATCTCGCAATGAATATCTCATGAGAAGAGAAGCATAATGAAGACTACA
AAAAAGCAATGCATTTAAAAAGTAGCATGTTGCTCCTGTGTGTGTATAGCACAAGAGAAGCTTAGAAGAGTGACGATAT
CTCCCAGCTGTCACACTTTTATTTTATATCCTTCAGTTATTTGTGGCAATGATGGAAACCAGAACAATATGATTGACAT
CCTTAGAGTATTCATAACACTATTCTTAGCTCGCATGTGACCTTGCATTCCCTCAGACCTTTCACCATTTCTCTTTTAA
ACAAATTTTTAAATTTTCTAACAATCTCCAGTTTACAAGAACGGCTATAGCACAGTCCAAAGACCTTTTTTTTTTTTTT
TTTCTGAACCATTTGAAAGTAAATTGCTAATCAAATGTTCTATCACCTATAAATACTTCTGTGTGTTTTTCCTACAAAC
TAGGTCACTTCCCTGCAGGACCCTCAGACAAGCATAAAAATCAGGAAAGTAACACTGATTACTTACTATTACTTACTAT
TCTTTTTTTTTTTTTTTTTTTGAGCAGATCTCAACAGTGGGCTTAAAATCTTCACTAAACCATGTGTTGTCATTTCTG
GAACACAGGTAGAATAGATGTAGCATAATTCTATTTTTTTTTTTTTTTTTAGGTGGAGTCTTGTGCTGTTGCCCAGGCT
GGAGTGCAGCGGCACAATCTTGGCTCATTGCAACCTCCACTTCCTGGGCTCAAGCAATTCTCCTGCCTCAGCCTCCCAA
ATAGCTGGGACGACAGGCACATGCCACCATGCCTGGCTAATTTTTGTATTTTTAGTAGAGATAAGGTTTCACCATGTTG
GCCAGGCTGGACTTGAGCTCCAGACCTCAGGTGATCCACTCACCTCAGCCTCCCAAAGTGCTAGGATTACAGGCATAAG
CCACTGCACCCAGCCAGATGTAGCATAATTCTTAAGGGCCCTAGGATTTTTGGAATGGTAAAGGAGCACTGGTTTCAAC
TTCAAGTCACCAGCTGTATTAGCCCCTAACAAGAGAGCCAGGCTGTCCTTTCAAGCTTTGAAGCCAAATATCGACTTCT
CCCTTCTAGTTACAAATGTCCTAGATGGCATCTTCTCCCATTAAAGGCTGTTTTTGTCTACATTGGAAATCTGTTGTTT
AATGTAGCCACTTTCATTATGATCTTAGCTAGATTTTCTAGATAACTTGCTGCAGCTTCTACATTAACCCTTGCTGCTT
CACCTTGCACTTTTATGTTATGAAGACAGCCTCTTTCCTCAAACCTCATAAACCAGCCTCTGCTAGATTCCAGGTTTTC
TTCTGTAGTTTCCCCACCTCCCTCAGCCTTTATAGAATTGAAGAGTTAGGACTTTTCTCTAGGTTAGGGTGGGGCTTAA
AGAAATGTTGTGATTGGTTGGATCTTCTATCTAGGCCACTCAAACTTTCTCCCTATCAGCAACACAGCTGTTTCACTGC
TTTATCATTTGTGTGCTCACTGGAGTGGCACTTTAGTCTCTTTCAAGAACTTTTCTTTGCATTCATAACTTGGCTGTTT
GGCACCAGAGGCCTAGCTTGTGACTTCTCTCAGCTTTTGACCTGCCACCCTTACTAAGGTCAATAGTTTCTTTTGATTT
AAGGTGACAGATGTGTGACTCTTCTTTCACTTGAACACTTAGAGGCCATTGTAGGGTTATTAATTGGCCCAATTTCAAT

Fig. 6.4

ATTGTTGTGTCTGAGGGAATAGAGAGGCCCAAAGGGAGGGAGAGAGACAGGGGAACCACCTGTTGGTGGAGCAGTCAGA
ACACACACATTGGTTGATTAAGTTCACAGTCTTATGGGCATATTGTGTGGTTCCCCCAAACACTTACAGTAGTAACAGC
AAAGATTACTTATTGATCATAGGTCATAATAATAGATAAAATAATAATTAAAAAATTGAAATATTCTGAATTACCAAAA
TGTGATACAGAGACATGGTGTGAGCCCATGTTGTTGGAAAAATGGTGGTGATAGCCTTGATTAACACAGGGTTGCCACA
AAACTTCAATTTGTAAAAAACATAATACCTGCAAAGCAACTAAAGTGAAGTGCAGTAAAACGAGGTTATACCTGTATAT
TAATAGGTGACTCCAATAAAGACTTCGGTAATCTATAACAAGGAGCCAACTATCAAATGGCAACTGCAAAGATAGTTCT
CTCACTGAAGCTAACAAAAACATCTACAAACTTTCAGCTGAAAAATCAAAAAAGTTTGAGTTGTATAGGACATTCTAAC
ACCAGGGAATGAGACATATCTTTTTGTATGTAATAATAATGCAAGCCTGAAAGTCTTCCAGTGACTCACAGAGTAATAA
CTGTGACAGAGGCTTTCTGAATTACACATGGTGAATTTTACAAAAACATAATATGTGGATGATGTTTACATAAGTTTAT
ATCTTCTTCCATACTATGTAATGTGGTTCTACAAATGTTTAGGTAATTAGGGTTTAGGAGGGTATAATTAAATGATTTA
TTATTCAATAATATGCTTGTGTTGGGACATTGTGGAATTTTACCTGCTATTGTTGTGAGGCCCGGAGCCAAATTTAATC
TTATCTATTAGTGCACAATATATTTCTTAACCAGATTTTAAAGAAAATCTAGCCAAAGTTGTATGTGATTCATGTTGTA
TCTTCCTCCTGATGTTAGTTTTAATGCTTTAAGATAGTAGTAGCTATGATTGATGCCACTGAAACTTTTAGTTCACTTG
ACTCCTCTATATAGCCCATGGATACCCAGTGTAGTACATTGATTTGGTTTTATGACTATTGACACCATTTTCTGATTTA
TGAAGGTTGACTTGTCCACAATCGGTGAGAGCTGGGATTTAATCCAGATATTCTGGCTACAATCCCAATAAGAGATGGG
TCATTCTTATCCTTCATTCATGTATTCATTCATTCATATCATTCATTCATTCATTCTTTACACAGAAATGTGTTGGTAC
CTATGATGTACCAGGTATTTTTCTAGCCATGGGAGGCATATCAACAAATGAAAATGATAAGAACCCCTACCCTGTGGAG
CTTACATTCCAGTAGGGCAGAGGGGAAACAATGGCAGATAACATAATAAGTAAATTCTGTAGTATATTAAGTGGTAGTA
ATGTATACTTGGAAAAAAGTAAGCAGGTAAATGGAATTGGGCATACCAATTTTATACCTCTTTGGAGGGAGATATGAAT
TAATTTTTCAATTTTATCTCATAAATTATGTCAAAATAATAGGTTTTGTCCCAAGCCTTTCCAAGCAGGTAGCCTGGAA
CAAGTGTTCTGCTCTTCTCCTCTCTCCCCACTACTCAGAACATTGCTATAAAAGATAGCTAAATTACAAGATCAACTTA
CAGAGTCCTACTTAATTCATTATGTAGCTCAACTGTGGTTCAAATCTAGTAGTGTTATAGACCTAACCAGTCCTTACAG
TGGGTTTTCTCCCCAGTCTGGTAAACTGTATTCCATGCTCCAGCTGCAGGTGACAGGAACCTCATCCTTTCATGCTGCT
CTTTTAGCTTTGGGAGTAAGCAACTCCCTCTCCTTCCACATTATCCAATATTGTGCGGCAGAGACTTGCTTCCATTAAA
GATACTGATAGTGGCTCCTCCACTGCTAGAAGCAGGAGGATGATCTTGGGGAATGATTATGGATTTAAAGGAGGAAGAG
ATAGTAGCATAGGCTTCTGTTTTCACAGGAAATAGGAAGGTTGACAGTTGGAAGAAATCGTAGAGGAGTCCCAGCTGGG
ATCAGTGACAGGAGGGAGGAAAAGGGAGGCCCTGGTCTCACAGGAAGGTTGAGTTATTGGGATGTTTATGAGTCAAGGA
TGGTCGCTTATCACCCAGTATGTAGGTTTCTGTAGATAAATTCCTGAGATGAATTTACCTATGCCTTCTTGCTTGATTT
CTTTTTTGCTTTTTCTTTCTTTCTCCCTTTCCCTTTCCTTTTCCTTTCCCAGGGTATTGCTCTTTTGCCCAGGCTGGAG
TGCAGTGTGCAATTATAGCTCACTGCAGACTCAAACTCATAGGCTCAAGTGATCCTCTTGCCTCAGTCTTCTGAGTAGC
TAGGACCACAAGCATGCACCACTATGCCTATCTAATTTTTTAATGTTTTTGTAGGGATGGGATTTTGCTATGTTGTCCA
GGCTGGTCTTAAGCTCCTGGCCTCAGGTGATCCTTCCATCTTGGCCTCCCAAAATGCTGAGATTATAGGTGTAAGCCAC
CATGCCTAGCCTCATTTAATTTTCATAAAGTCTGAAATTATTATCTACTCTAAGTTTGGCAAGCAACTGGTTGTTTAGA
GTTTAGTAATAATTTTTTGAAAAGATATAATGGATATAATTTTTACATATTTGTTTAATAGCATCCTCACAAAGAAATT
TTTAAATTTCTTTTATAGAATTCTGATTATTTTACAGCCCTGAGGTACTCTTAATTTTAAAATATATTTCTTTTTTAAT
ACATTATTTTTCATAAAGGCTTTATAATCAGCATGCTTTTATTTTTTAAAAATATTGTACTACTAATATTGTTGCATAA
CTTCAAAAATTATCATTTAGTAGCCATATAATACTGGCTAATAATTAACATAATATAATATAATAAATATAATATAATA
TAATATATAGTCTATTGATAAATAGGTATTTGAGTGTTTATCTGTTTGCCTTGTATTATACTAGGAAATGTGGCTTGCC
AAAATAAATGCATTATGCTTTCGGTTAGCTTGTAGTCTCATTCATAAAGCAATGTAGATACAATGCAGTAAGGATAAGG
TGAAATCTGCCTTTGCAAAGGGATTTTTAATTTGGAAAAAGAAGGGATTTGTGGGACAATGAGATAGAAGGCTTTACAG
AAAAACTAGATGGCTTTGTGGAGAAAGAGAATTTAACTAGTTATTACCAGTTCAACCGCTACATCCCCATTCAGACCAT
CAGCATACTGTGTGTCTTCCTTTTTCCCTGCTTTCCCCTTGCAATCTATTTGCTATACAGGTGCCACAGTAAAAAGCAA
TTCAGATCAAGTGACTCCTCTGTTCAGAACCCACCAGTGGTTTCTCAGGTCATTTATAATGAACCCCTCAGTCTTTAAT
GATATAGCCTACAAAGTTCTGCATGATCTGCCCCCTTGGCTGCCTCTCTAACCTGATTTCTGACTTGTGTTTTCCTTAC
ACACACTGTCTCTTGATGCTGGACGCATTCCTGTACGTCACACACTCCCAGCATGCTCTCACATTACAATGTTTGTAAT
TGCCATTCCCTCCACCTTGAAAGTTTGTCTCTGCAGTATTTCCCTGGCTTGCTCTCATTTCCTTTGGATCTCTGCTCAC
ATGTTACCTCCTTAGAGAGGGCCTTCCTGAAAATGATAGAAGTGTTTTTTTTGGAGCACATCCCCTCACTCCCCAGCTC
CTCTCCAGTGTATTTTTCTCCATAGCATCTTTCTGCCTGACCTTGTATTTCTATATCTTTTTGCTTTTTATCTTCTGGA
AAACAAGCTCCATGAGATCACACAGGGATTTTGCTTTATTCCTCACTGCATGTCCCCTCCTAATACAGTTCCTGGAATA
CAGGTGGGGGTTCATAAATATTTGTTGGGTAAATGAAAGAATATATTAAAATATTATCATAAACCTTTTTTCTTTCCAT
GATTTGATGATGTGGAATTGAAAACAGGTCTACATAGATGATAGTGATATAATCAACAGCATTCCTGAGTACGTCTAGG
ATCAGCACTTGGTCTAGAAAAGATCTGTCTTCTGCCCTCCTTTCCCGTCCATGCACATCCACTGCCTTTGGGATCAAAC
CCAATCTCCTTCCTCTGGCAGTCAGGGCCTTCTGAGACCTCATCTCTGTTGATCTTTCTAGCTTTACTTCTACCAAGTC
ATTCCCCTCATAACTGCATGTCATACTGAGTGGCTTATAGTTCCCCTCCTGTGGCCCTTGCAGATATTTCTTGCATTGC
TTTTCATTTGTCACTTATTTGTTTATGGGTTTCTCCTCACAGTGCATAAGCTCTTCAAAGGAAGAGGCCTGGTATATCT
TTGTATTTCTGGGATCTAGCGCAGTTCTTGTATATTGTAGATGGTCAGTAAATACTTATTCAATGTAAAAGATGTTTTT
TGCCTTCCAAAGACTAGTGGTAACTTGAAATGGTTGGATATAGGACAGATAAACTGATAGAAGCAGTTTTACCTCATTA
GAGGGCTTGGATATAAGTATGTCCAGGGACAAATATAGTAAAAAAGAGAGCAATATTATAATATCCTTTAAAAAAAAAA
AAAGAGACAGGTCTTGCTGTGTTGCCCAGGCTGGTGCCATTATGGCTCACTGTAACCTCAAACTCCTGGGCTCAAACAG
TTCTCCTCCTTCAGCTTCCTGAATAGCTAGGACTACTGGTGTGTGCCACCATGGCGGCTAATTAAATTTTTTTTTTTTT

Fig. 6.5

TTTTTTTTTTTTTTTTTGTAGAAATGGGTTCTCACTATGTTGCCCAGGCTGGTCTCAAATTCCTGGCCTCAAGTGATCC
TCCCATCTCAGCATCTCAAAGTGCTGAGATTATAGGCGTGAGCCACTGTGCCTGGCTAGAA. TCCTAACTTTTAGCAA
AATCATACCTGAGATGAGGAAGGATGGCATATAACATGATTGAATCAGCACACTTAACTAAGAAAGATAGCCTAAGTGG
AAAGAAGGGTTATTTGAAAGGCATTATTTAGAAAGAAGGGGAGCCATTTGGCAGTGGACTGACTATGTGGGCATCAGTC
CTTTATTTAGTCACTGAGAGTCATGCAAGGTGGTGAGCCTGCTGATAATGAGGAAATAATACAGAGGGGAGAATTCAGG
GGAGTGATGACACGTTCACGTTCTTGCTATTTTGGACTTATTAACAACGTGAGTGTTGAGGGTTATGATAGTGTTAGCC
TGGCTGCTCCTGGTTCGGGAAAGAGTGCTATGAAAATTGAGATATATCTGTCTAGTGTATGGGAGGAGAAAATGGCTGT
ATTTGGTTCTATATATTTGTCATGCCTGGTTGATGGTTTGTATTTTCTATAGTGATTTGTGAGTGACAATGGATCTATA
TTCAATTGACCCAGTATAGTTGAATATGTGAAAATATTTTATGTAATTTTACTAATATATATTTTGTTAAAATACAACC
ATATAGAATCTACTAGGCTATAGGTGTTGAAAGATAACATTTTTTTTTTTCTAAATCAGGTTTGTTACAGAAGGAGAAA
GTGGCAGTTGAAGCATTTCAGATTTGCTGCCTTCTCCTACCTCCTGAAAATAGGAGAAAGTTACAGCTATTGATGAGGA
TGATGGCAAGGATTTGCTTAAACAAAGAGATGCCACCCCTGTGTGATGGCTTTGGTACCCGAACACTGGTAGGTTGATT
TTTAACATCAGGTATGACTTTTTGGAATGAAAGTCGACTGAGTAAGGTGTATTAGTTTGGGTGATCAGAGGGAAGTACA
AAGCAGACTTGCTTAAAAGAGCCACAGTCAGTGTCCACCCAGACTTGTGTCGTGCTTTTGTTCTAAGTGTCTTAAAGAA
CATAATGAGAAATGGAGACTTGAGTAGGGGCAGACTCTGTAGAGAGATCTGCTACATCCTGTTCTCCCACTTAAAATTA
TTTTAAATTTATTCTTAATTGACAACTAATAATTGCATATGTGATGTTTTAATTCATGTATACATTATAGAGTCAATCA
AGCTAATTAACAGATTCATTACCATACCAACTTATCATTTTTTTGTAATGAGATCATTAAAAATCTATTCTTTTCTCAA
TTTTGAAATATACAATATATTATTATAATTGTCGTCACCGTGCTGTGCACTAGAGCATTAAGACTTGATCCTCCTGTCT
CACTGGATCTTTGTACCCTTTGACCAACATCTATTTCCATGTCCCTGTATCCCCCAGCCTGTGGTACCTACCATCTAAT
CTCTGCTTCTATTGGCATATGTTTTAAAGAGAGTTTATTTTAGAATTTACTTACTAGCAAAATCTCTTGATTTTCCTC
AAAAAATGTCTTTGAGCAAAACTGGTGCTTCAGTGGAATGTATGTGCTTTCCATATCCTGTTAAAACACCGTGTACTCC
CTGGGGATTCACTGGCCCAGTTTTAGAAGTAATAGAGTGAGATCAGAGGAGCACTTAGTGCCCAGTAGGATTCTTGATC
TCTATATTTTTTTGGAGTGAGTGGATGGTTAGAGAGGCTAATAGACCTTTTTGAAAAGCTGAAGAAAACTTTATATCTA
TTCTGCATATAAAATACACATGCAAAACTTTGCATGCAGTTTCAAGGCGATCACAGAGTCCCTGGGGTCCATGGTCTCC
AGGCAAAAAATTCTCTGCCTGTGTGTCTCTCTGTACATGTAAATGTAAGTGAAGATCATTTGCAGTGTGTTAATGAAGT
GTTACTAAGCAGAATTACATGATTTTTTGCTTAAAGATTTTGAAGGAAGATTGTCAGCAATAAAAGTAGTAGGAAAAAA
CAAAACAAAACAAAAGCCAGTCCAAAGAACAGTATTAAGAATGGAGTAGTTAGGCTGGGCGTGGTGGCTCACTCCTGTA
ATCCCAGCACTTTGGGAGGCCGAGGCAGGTGGATCACCTGAGGTCAGGAGTTCTAGACCAGCCTGACCAACATGGTGAA
ACCCCGTCTCTATTAAAATTACAAAAATTAGCTGGGCATGGTGGCAGGCGCCTGTAATCCCAGCTACTCGGGAGGCTGG
GGCAGGAGAATTGCTTGAACCTGGGAGGTGGAGGTTACAGTGAGCCAAGATCACACCATTGCACTCCAGCATAGGTTAC
AGAGCGAGACTCCGTAAAAAAAAAAAAAAAAAAAAAAGAATAGTTAATTTCAATTCTATGGAAATTATTACATTGATGCT
ATAATATATTTTGCATTTCTGCTTGCCTCAAAGAGAGTCTCATCACTTAATGTACTTCTTGAAAAGTCCCATGGCTTTG
TTCAAAGATGATTGTCAAATATACATCGAAAATCCTAGAGAAAATAAGCTAACTAGGAAAAGATGTAATGGTTGAGGCA
TGTGGACTGTGTTAGCGGTTTAAAACAAATCAATAATGAAATTAGGATAAATAATAATTGACTAAATGGCTATAAAGTG
CTTTGAACTTAGTAGTGCTACATGATTCAAGTCATGGTGATAATGATTTTCAAAATTTGTTTTCATATATTTATATGTG
TGTATGTGTGTGTATATATATATATATATATATATATATATATATATGTATATTTAAAATCGTGTAAAAGGAGGTTTAAAA
ATTGCTCAGATAAGCATCTCTCTGCAGTCTCTTAACAGGAAGATGCACATTTTGTTTGTTCTGGTTGTTGAGACCGTCA
ACCCATCTGAGATGGCTGGGTACTCTTGGTAGAATATGCACCCTGTGCCTTAGACCATTTCTCATATTTGCCTTTTGCA
AATTAGATTGCACTCAGTTCAGAAAAATACTCATCTGCGTTTACCCCCCACCCCGCTCTTTTTTTAGATGGTTCAGACA
TTTTCCCGTTGCATCTTGTGTTCCAAGGATGAAGTGGACTTGGATGAGTTATTAGCTGCTAGATTGGTAACGTTTCTGA
TGGACAATTACCAGGAAATTCTGAAAGTCCCTTTGGCCTTGCAGACCTCTATAGAGGAGCGTGTGGCTCATCTACGAAG
AGTCCAGGTAAAGGAGAGGATATTATCAGTTCTATGAAATTGGCAATATAAAGTCACGTAAGCTTGCTAGGCTTCTTGG
GGCATTTTATTATGAGGATTAAGTGAATTAATGTTTATAAAGTACTTACAACAGGTCTTGGCACATAGTAATCCCCTGC
ATGTGTTTGTATTATCATTGAAAAGTTTACAGAATGCACATTTGGTTTTGTGTATCAATCCATGTGGCATATTTTTTAT
TGCTAATTCCTTGAATGAGTTTGTTTAGAATCTACATACACCTACTGATGGAAATGATTTTATGTGCAGTAAGTGTCTT
GATTCATAATTGCCCTGTGACCTAGTTTAATATTCCCACTTTTTGCATGAAAAAGCTAAGGCACAAAGAACTTAAATAA
CTTCGCTTAAGGCCACAGAGCCAGAATTCTGACTGTTGCAGTCAGCCTCTGTAATCAGTGCTCTAAACTATCATTCCAT
ATTGCCTGTCTAAAAATCATAGTACAGTAGAAGAACACTGGCATGAGAGCCATGAATCCCTGGCCAAATTCCTAGCTGT
ATCCTTTCTGTCGTGTGACTCTGGGCAAGTCCCTTAACCGCTTTGGATTTTACTTTCTTTCCTCAGGCGTTAAAATGGG
CTATTCTTTCTTTATAAAGTTGTGAAGATTAGAACACTGTACTTTACAATTCCTAGGATGAATTTCTGACATATGTCAG
GTATTCTTTGAAAGGTAGCTGCTGCTGTTGTCATGGTGGTTATATAAAAACAATGCAAAAGAAATATAATATATTATTA
TCGTGTGGACCCCAAAGTGGGGTTTGTATGTCAGCCTGTGGGAGCAGAAACCTGGTAAAGGCAGGCAGAAGGTCCACTT
GACTCCTTCTGACTGATTGGACCTCTTCTCATTTGAGATCTTTTTGAGGCACCACAATCAAGGACCAGTGAACTGCCTC
CTTCTGAGGTATTACAAAAATAATTAATTGTCCAGCTGTTTCTAGAAGGCAATTTTAAAATTAAAATTTTTTCTATTTT
TTTGCAATTATCAACCTAACACATTGAAGAAACTTGGGAAATATAGAAAAAACACACCAAAAAGTATCAGAGTTACACT
AAAATGTTCATAGTCAGTAATATAGTCTTTCAGATTTTTTTTTCTGTGTCTGTCTGCTGTCTATGTCCATGCCTACCTT
ACTTTCTTCCCTCTCTCTTCCCTCCCCACCCTCCCTTCCTTCCTTCCCTCCTTCCCGCCTTCCCTGCTTCCTTCTTGCC
TGCCTCCCTTCCTGCCTGCCTCCCTTCCTGCCACTTACATTCTGTTAACAATGAGAAAAAAATTCCCCCATCATTAAAT
ATTGTTGATTGGCATGAGAATGGCCAAGAGCACAGACTCAGGAGCCTTTGAATTCATGACATGCCTTTTGTTAGCTGTG
TCACCTTAGGCAAATTATATAACATGTCTGTGCTTCAACATCTGTCCCAACATTTCTTTTTCTCATCTGTAAAATGGGA

Fig. 6.6

ATAATAGTAGTAGTTAATATTTACCTCATAGAGTTTTTCTGGGGAATTAAAACATGTGATTAAAATACATGTGGGCTTAATA
CATGTGAAATGCTCACAATAATGTTTATCACATTGTAAACCTACAATTAGTAGCTGCCTTTGTTGTTGGTATCATCATT
ATTGTTATATTATTCCATAATAATATTATTGGCAACATAGTATTCCATAATATGGATATACCATAATTTATTTAAATGA
TACTTTTTGGTTGGTATTTAGATTGTTTTCATGCTTTCCCCCATTTTGGAAGCAATATAGCAGTAAATATTTTTAAAGG
TAGATTTTTTTTGGCTAATCTGTGATTATTTTTTAAGAATAAACTCCTAGGGGCAGCATTGCTTGGCCAAAGGCCATGA
ACATATTTTAAGTATCTATAGCATATTGCCAAATTTAGAATGATCATTTCAATTTACATTCTGTCAGTGGTATAAGAG
AGTGTTCATTTCTTTGCCCCTTTGCCTACTTTGGATATTATCATTAACACTTGTATATATCTTTGCCACTTGCATGGGT
GAAAAGTGTAATTTTAACTGCTGTTTTAGTTTAATTTTTTCCTCTGATATTTTTATGAGCCAACCCTAAAGAAAATAAA
AATGAACAGAAATACTTCACCAAGTTTCTGCAAGGAAATGTTATAGCAGTGTATTAGTCTGCTCTCATGCTGCTAATAA
AGACATACCCAAGACTGGGTAATTTGTAAAGGAAAGAGGTTTCATTGACTCAGAGTTCAGCATGGCTGGGGAGGCCCCA
GGAAACTTACAATCATGGCAGAAGGGGAAGCAAACACATCCTTCATGAGGCAGCAGGAGAGAGAAGCACCGAGCAAAAG
GGAGAAAAGCCCCTCATAAAACCATCAGATCTCATGAGAACTCACTCACTATCATAAGAACAGCATGGGGGGAACCACC
CTGTGATTCAGTTACCTCCCATCTCCCACAGCAAGGGGATTATGGGAACTACATTTCAAGATGAGATTTGGGTGAGGAC
ACAGCCAAACAATATCAAGCAATAACTGTGTTGCCCTGTATACTTGCTAGGTTTGTGTATTCACATGCATAGCACAGGC
ATATATTGTAGTAACTTAGCCTTGTGAGCCCTTTGCTATTACTTGAAGTTCAGAAGGCTGAGCTATGGTGATTAATTTA
ACTGCAGGTAAACATGATCTTGTTAAGAGACACTGCAGTGTGCTCTGAATAAAATCAGTAGTGATTCATTTGTCCAGTT
ACCTTTTCTCTCTTGCAAGTACATATTAGAATTGCCAAGCACCTGTTCCATTCAGCCCTCAGAACCTATAGATCTTTGT
TCTTTTGATTAGGCTCCTAAGCCTCTACACTGTATCACATTTAGGGGAGTGCTTCTCTGAAAATGCAGTGTTGCTTGGA
TTATTCCAGTGATTGTTTTAGGACAGTTTCAGGGCTGACCCTGGGATACATTATTAGGTAGGCAATGTTTTTGACACAA
GCCTTCTATGATCCTCATCTGCAACCTTCTATTTCAAAGGACTCCAGGCTCTGAAATTAAATATTTTTAATGTATGTTC
ATTTATTCACAGGCCTTGGTTTCCTTTTTCCTCTTATTTCTCTCTTCTCCCTTATCCCTTCTGCAATGTCTGCACCTTT
GTTGTTTTACTTGATTCTCATGGGTAAGATGTTAGGAAATGATTGTAGTACCCCTCTCTTCCTAAAAGCTTAGCTAAAT
GCNTGCCACTACCATCCCCAAGGCATTGAGAATCACACTCTTCAGATGTGGGAATGCGCCTGGATAGTTCCAGTGGATA
TCCAACATTATCAATGTTTTGAATCANTTTAGTCAATGTGTTTAATTTATGCTTGAATTTCAGATCTTGTTAAAAGAGG
GAATGCCGAGACCAGCTCGGTCGTGGAGACCCTAACCCAGTGGCCCTAGAGGAATTAAAGACACACACACACACACACA
CAAATATAGAATGTGGAGTGGGAAATCAGGGGTCTTACAGCCTTCAGAGCTGAGAGCTTTGAACAGAGATTTACCCACA
TATTTATTGACAGCAAGCCAGTCATAAGATTTACTAAAAGTATTCCTTATGGGAAATAAAGGGGTGGGTGAAATAAAGG
GAAGAGCTCTGGCTAGTTATCTGCAGCATGAACATGTCTTTAAGGCACAGATCGCTCATGCTATNGTTTGTGGTTTAAG
AATGCCTTAAGCGGTTTTCCGCCCTGGGTGGGCCAGGTGTTCCTTGCCCTCATTCCTGTAAACGGACAACCTTCCAGCA
TGGGCATCAAGGCCATCACGAGCATGTCACAGTGCTGCAGAGATTTNGTTTATGGCCAGTTTTGGGGCCTGTTCCCAAC
GAGGGCACAAGCTTTTTTTGTTATTGAAATGGCTCTTGGGTTTACAAAGGTAAAAATCCAATTTAAAACCGTGGCTTTA
AATAATAATATTTTGAAGTTATGGAAATACTTTTACTTTTCAATATAGAGTTTCCCCCAATCAAATTTTGAGGACTAAC
ATGGCATTGCTACGGTACAAGGAGATATCCTGTATTTGATCTAAACTAATTCTTATAATTTATTTGAAAATATGCTATA
TTCTTTCACTACTAATCCTTTTGCCTCAGATAAAATACCCAGGAGCTGATATGGATATCACTTTATCTGCTCCATCATT
TTGCCGTCAAATTAGTCCAGAGGAATTTGAATATCAAAGATCATATGGCTCTCAGGAACCTCTGGCAGCCTTGTTGGAG
GAAGTCATAACAGATGCCAAACTCTCCAACAAAGAGAAAAAGAAGAAACTGAAGCAGGTAAAAGGATATTCTTTATAAG
CCATTTTTTCTCCTCCCTACTGTTTTTATGTTTTTTTTTTTATTTTAATAGGCTTCATGTAAATCTCATCTTCTGAGCC
ATAGCAGTTTTCTAAGTATATTAGTTCATACATTCTAGAAGTCTCACTGATTTACACACTTGTGGTCAGTATCCTAGAT
CTTTATTCTTCAGTGTAAATCTGTTACCATTGCCAAACTCTTCATTTTTGGAGCTATTCTCTAATATTTGTCCTTTGTT
TTGGTATGTGGCATGATGTGAATTAGCAGAGCATCTGCTTTAATCTCAGAGAAGCTATCAGTGAGGGTGGATTTCTTTT
CATGTTTTCAAAAGGCAAATCAGATGGAATTCACAGGTGTAAAATGTTTAGAGTTTAAAAGCCGTTGGTTTTAGATAGC
CACTATCAAATTAGTTTCTTGCCTCAGGTATCAGTACAAGTTTTTAGTTCCTCTTATGTTAGGGGAACACAGCTTAGGG
TTCCAGCGAATCGTTTTTAACTCACAATATGTTACTTTTGACTATTCATAAAGGTTGATCCATGATCAGGTGAGTGGTT
TTTGTTTTTAAAGACTGAACTCTACATAGTTGGATTCAGGGAACACCGTACATGTGGGATTACACACAGAGCACCAGAG
TTCTGGGCTTCTGATCATATTATTCTCAGAGTAATTTTGGAGGAGAGTTTAGTGGTAAAGATCAACAGAAAGTATACTG
CCTCTCTTTTAAGCTTTTCACAAAGTAATATACACCAGAATATTCCCTCTTCCATTTGAGCAGAAGCTGGTGGGGCTGA
GTTGGAGAAACAGAGAAATGATGAAATGTAATTGGGCCAAAATTTTATTTAACTGTGTAGAACAGAAGTTATTTTGAAG
TCAGAGTTACTTGTGAATATATATAAAAAGTGAGGTCTATTTATAGTTGGCAGTGGGGGGAATTTTCAGAAACATGATTAA
AAGGGGAACTTATTTGAAGCTTAGATCAAAGGAAAGATGGATTAGCTCTATAGAAATTGGAATGAAATGTTTTAACAAA
AATAAACAAAAACAGGAAAATACAGGCTCAGAAACTCTTAAAATTTGGCTGCCAAATTTTATTGGCTTTTATGTGTCTT
TTTTTACTCTTCTTGGACCATTCATTTTTTTAGTTTCAGAAATCCTATCCTGAAGTCTATCAAGAACGATTTCCTACAC
CAGAAAGTGCAGCACTTCTGTTTCCTGAAAAACCCAAACCGAAACCACAGCTGCTAATGTGGGCACTAAAGAAGCCTTT
CCAACCATTTCAAAGAACTAGAAGTTTTCGAATGTAATAATACTTCCACAGCAACAGGTGCTAGAGACCACTGTTGTTG
TTTTGAGTGAATGGTGGTTAGGAGAAAGACTTTGGTGGTGGAAGAAAGAAAAGCATAAAACAAAGACTACTGAAATATA
GATAAAGATTGCCTTAGTTTTTAAAAAATGTTTGGCCATTAGTATTTTTATAAAACTCAATGCTAGTTTTAAAGTGTATA
AATTGGTTAAAATTTATGAGTCAAATATATAGTGATAATGTTAACATGTTTGTAATTGCTACAGAATTTAAGGGTATTT
TTATCTCTGTGCTTTCTTTTTCATGGTGTTTATTAAATAATTGTGTATATACATCCTAGCTACTGATATCTTTATTATA
GCCTTAAGACTTAATTTTAAGTCTTAAAAATAGCGTGTATACTTGAATAAGAAAGACACTGGGTACTGTTACTGTGATG
CTATTGACTTAGTAGCCAATTATCATTTCTCCTGTATAAATTCCAGTTTTTATTGCTGCACATAAATTTTTTAATGTCT
TATATTGTGATAGCTATGTCTTTTATTGCAGATTTATTGGATGTTATGACAGATTTTACTAAAGCTAGTGTTTTTATAA

Fig. 6.7

CATATATATTAGTTGATGTTTACCTATAAGTGGAGTAGATTTTCATCTGCCTGCAATGGTATAATTTCAGTCTTAGCTA
AAAATGGAAAGTTGAACTGGATAAATTCTTTGGGTACCCTTAGACCTCTGATTCTAAGTCAAATGCAAATGGGTTAAAT
AAAATGAGACTACTTCCTTTATAAATATATTTTCATCCTTTTGAAAGTAAGTGAAATGTAAATAAACTTATTTTTTTA
AAAATGCCATACCTCGTGTTTCTTTTTTGGCATTTATTTAGATCAGTTAGAGAGCATCCTCAAATGCCTTTGCCAATGG
TCTTCATCAGTCATTTATTTCTATGAGAAAATGAAAAGTAAGATTTGGGCTTTTGTACTGACTGGTCTTTAGGTGAGCA
CTTTGCCAATTTTTTAGCATTGCTTTGTCCTTTTGTAAAATTGTGGTGCACTTGGATTATGGAGCATCTGAAAGTCTTC
CTCTGAGCGCAATTACCCAGAAAGCTGAGAGCAACACCCACTAATTGGCTTACAGTACTCCTTGGACTGATTTTTCCTT
GCACTTAAGATTTGCTCCTGTTCTCTTGTAGCAAAATACCTCCTACATCTGATGCAGATTTTGCTTTTAAAAATGGACC
AAAGTATTCCTATTGGTTTGGGTACCACCTTACATTCCAAATACATAATGTAATGGGAGATTTTTAGTGTTTCAGGATT
CATTCTCAGACTTTGGCATTCTGTTTAGAGCCAAGAATAATTCTTCTTTCTGCTCTATTTTCACTCCGAGGTAGAGTTT
ATTTTTCAGAATCTCTTTTCCTGTTGCTTGTCTTTGGAAGTATATGTGGTTGTTTTCTTTCCTTTTTTTTTTAAGATTA
CTTTTTTAAAAAAATATAACATATTTATGGAGAGATCATAAAACATAAGCACCAATTAAGTGTGAAATTGATGAATAGA
TAATAGCAGTTATCCAAAGTGGTTGTCCCAATTAACGCTCCCATTAACAGTGTATGAGAACTCCTTTTGTTTAATATCC
TCACCGAAACTTGCTATCGTCAGAGTTTGAAATGTTGTCAATGTGGTGGTTATTAATAGTGTCTGATTATGGTTTTATT
TTGCATTTCCATGATTATTAATATGGCTGAACATTTTTTTCCATTTTTTTGACTTTTTCGTCTTTGTACAAATTTTGGT
ATCAGATTGTCAAGCCTNCATACACACACACACACATGCAGAGACACACACTCACCCTGTTGAGTTTTTTTTTTTAATT
TTGATTGTATTATATGTATAAATCAATTTGCAGAGAATTGCTGTCTACAATATTAGGTCTTCTAGTCCATGACCATGGT
TTACCTTTCCATTTTATTTGAAATAAATGAGAAAAAAAGTTGCTTTTTTCTGTGAAGATTTACAAATCTTTNGTTAGAT
TTGTTCCCAAGTATTTGATACTTTAAAAAAAGTATCAAAATTTTCAAAGACTGTAGTACCCATTTCCTGTTTCAACAGT
TACTCAGCTGATCAATGTTGACGTTTAATTCTTTTGTAAATGCTGGTGTTGTAAATTTCCTTATAGTGTTTGTTGCTTC
TGTATGGTATAAAACTGATTTTTCCTGAGTTTTGTTTACAGTGAACCTTGCTAGACTTGTTAATTCTAAACATTTAGTA
TGATTCTTTGGCATTGTCTACNTATTAGGAAAAAAACAGCTTTTGCTTTTCCGTTCCATGGTAGACAGCATCTATATTG
TCCTCAGTGATCCTTGCCTCCTGGTATTTAATGCCTTGTGTAATTTCCTGTCCTTGAGTGTGGGTGGAGCTAAAATGAC
ACATTTCTAAATAATAGAATATATCATCAGTGATGGGGTATCACTTCTCAGATTAGATTCCAAAACTCTGGCTTCCATC
TTGCTTGTCTTCCTTCTTATTCTCTCCCTGGCTTGCTCTGAGGAAAGCCAGCTGTCATGTTGTGAGCTGCCCTTTCAGA
GGCCCACCAGGCAAGGAACTGATGTCTCTGGCCAACAGCCAGCGTGGACATGAAGCCTGCCAACAGCTTTACGAGTGAT
CTTGGAAGTGGATCTTCCCTTGGTCAAACCTTGAGGTGACTCTACCCTAGCTGACACCTTGATTGGAGACTTTTGAGAA
ACTCTAAGCCAGAGGACTTAGCAAAGCTGTGCCTGGATTCCTTATTCACAGAAACTGTGATATAATAAATGTTTATTGT
TTTAACCCACTTAGTTGAAGAATAACTTGTTATAAAGTGACCTAGATACAATATACTTTCCAATCTCCATACCCTTCCC
TCCCTTCCCTTCCGTCCCTTCCCTCCCTTCTCTCCCTTCCCTTCCCTTCCTTTCCTCCCTTCCCTCCCTTCCCTCCCTT
CACTTTCCTTCTTTTCTTTCCTTTCCTTCCTTTCCTTCCTTCCTTTCCCTGGCTCCCTCCATCCTTTCCTTCTTTTTTG
TCTCAGGACACTGGAGATCTTCAGTACAGCAGTTCCCTGGTTCCCATTTATCTGCTGTTTCACTTTGTACAGTTTCAGT
AAGCCACGCTCAACCACAGTCAGAAAATATTAAATGGAAATATTCCAGAAATAAACAAGTTTTAAATNGTGTGCTGTTC
TTATAGCATGATGAAATCTTGGACTGTCCTGCTTTGTCCACTCTGAAAATGACTTATCCCTTTGTTTCATGGATCCATG
CCTGGTAGACCAGGTACATTGTNAATGAGCAGTAATATTTTGAAAGGAATCTTTTTTTTTTTTTTTTTTTTTTTGAGCA
GCAGATCTCAATAGTGGGCTTAAAATATTGAGTAAACTATGCTGTAAACAGATGTACTGTTATCCAGGCTTTGCAGAGC
ACAGGCAGAGTAGATATAGTGTATTTTTTAAGGGCCCAAGGATTTTTTGAATGATAGATGAGCATTAGCTTCAGCTTCA
GGTCACCAGCTGCTAACAGGAGAGTCAGCTTGTCCTTTGAAGTTTTGAAGCCAGGCATTGGCTTCTTTATAGCTATGAA
AGTCCTAGATGACATCTTCTGCCAATAGAACGCTGTTTTATCTACAGTGAAAAGCTATTGTTTAGTGCAACCACCTTCA
TCATTGATCTTAGCTAGATTTTCTGGATAACTTGCTGCAGCTTCTCCAGCCTTTGTTGCTTCACCTTGCACTTTTCAGT
TAATGGAGATGGCTTCTTTCCTTAAACCTCATGAACCAGGCTTTGCTTGCTTTCAACTTTTCTTCTGCAGTTTCCTCAC
CTCTCTCAGTCTTTATAGAATTGAGGAGTTAGGGCCTTGCTCTATAGTAGGCTTTGGCTTAAGGGAATATTGTCGCTGG
TTTATCTTCTGTCCTGACCACTCAAATGTTCTCCATTTCAGCAATAAGGCTGCTTAGCTTTTGTATCGTGTGTGTTTA
CTGGAGTGGTGCTTTTAATTTCCTTCAAGAACTATTCCTTTCCACTCACAACTTGACTAACTGTTTGGCACAAGAGACC
TAAACTTTCCTTCTATCTTGGCTTTCAACATACCTTTCTCATTAAGCTCAATCATTTATAGCTTTCGATTTAAAGTGAG
AGGCGTGCAACTCTGTTTCACCTGAACAGAGGCCATTGTAGGGTTATTAATTGGCCTGACTTCAATATTGTTGTGTCTC
TGGGAATAGTGAAGCCCAAGGAGAGGGAGAGTGATGGGGGAATGGCTGGTGGGTAGAGCAGTCAGAACACACAACATTT
ATNGATTAAGTTCTCAGCCTTATATGGGCATGGATTGTGACACCAACAAACAATTACAATAGTAACATCAAGTTCACTG
ATCACAGATCACCGTAACAGATGTAATAATAATGAAAAACCTTTGAGTATTGTGAGAATTACCAAAATGTGACTCAAAG
ACATGAAGTGAGCACATTACTGTTGGAAAAATGGCACCAAGAGACTTTCTCAATGCAGGGTTGCCACAAACCTTCAATT
TGTAAAATATGCAGTGATCTGGATACAATATACAATATAATCTGTGAAGTGCAATGAAACCAGATATGCCTGTGTATAT
AGTGTTCAATACTATATGGTTTCAGGGCCAGGCATGGTGGCTCATGCCTGTAATCCTAACACTTTGGGAGGCCAAGGCA
GGCAGACTGCTTGAAGCCAGGAGTTTGAGACCAGCCTGGCCAACCTGGTGAAATTCTGTCACTACTAAAAATTTAAAAA
TTAGCCAGGTGTGGTGGCGGGCGCTTCTAGTCCCAGCTACTCTGGAGGCTGAGGCACGAGAATCACTTGAACCTGGGAG
GCAGAGGTTGCAGTGAGCCCAGATCACACCACTGCACTCCAGCCTGGGTGACAGAGTGAGACCCTGTATCAACAAAACA
AAACAAAACTATATGGTTTCAGGCACCTATGGAGGTCTGACATATCCCTAGCAGATAAGGGGGAGTTACTGTTTAATGT
GGAATAGAGTGGGGATCGCAGCAGCATCATCTTGCTCCTAATTTCAAAGAGGAGGTTTTTAGCATTAGAGTATTTGTAG
ATACCCTTTTATAATTTTAAAAGAAGTTATTTTCTATTTCTATTCTATTGTCAAAAAATTTTTATTGCTCGTTTTAACC
ATAAGTTGATGTTGAATCTTAATCAACTACCTTTCCTACATTTGAGGATTTTATAAGTTCTATCTTTTAGTCTATCATT
GGGGTTATATTACATTAATTGATTACTAATATTAAGCCACTTTGCATTCTAGGAGTGGCATAAATCTAATTATGATGTA

Fig. 6.8

TTATCATTTGAATATATATATATCTAGATTCTGTTGCTAATATTTAGTTTATAGTTCTTGTATCTATGTTCATGAGTAAAA
TTGGCCTGAAAATTTCCTTCTCTTACTATCTTTGTTGACTTTCTGATCAAGGTTATAAATTAAGCTGAAAATTACTCTC
TTTTCTATATATGGTTGGAATTATTTCTTTCTTGAATCTTGGGTGAAACTTAGTTAACTTTTAAAAAATAAATAATGT
AATTACACCGAAGTCAGAAAAATGGTTTGTATAATTTCAAGTCTTTGAAATTTGTTGAGACTTGTTGCATAGCCTAGTA
TATGGTCAATTTTTGTTAATATTCTGTACACATGAAAAGAATATGAATTTTGCATTGATTACAGTTTTTTTCTCTCTCT
ATAAAATCTTGTTTAAATTTCCTACAATTTTACTGATTTATTTTGCCTGCATATATATGTGTGTGTGTGTGTGTGTGTG
TGTGTGTGTGTGTGTGTGTGTGTGTATGTTTTTTTCCCCCTTTTCTTTTTAGAGACAGGGTTTCACTCTGTTGCCTAAG
CTGGAGTGCAGTGGTGCAGTCATAGCTCACAGCAGCCTTGGCCTCCTGGGCTCAAGTGATGCTCCTGTCTCAGCCTCCC
AAGTAGCTAGGACTAATTATGCTCAGCTAATTTTATTCAAATTTTTTAGAGATTTTGTCTTGCTGTGCTTGTTACCCAG
ACTGGTCCCAAACTCCTAGTCCTAAGTGATCTTCCCACCTTGGCTGCATTTATATTTATTATTGAGAGAATTATTATAG
ATTTCTGATTAAATTCATTTTGAATTTTCATATTTATCTGGTGGACTGACCTTTTTATTTATCATTATAAAATGTCATT
CTTTATCATTAGTAATGTGTTTGTCTGTAGTCTTTCTGTATTATATTTTAGGTGTATCTCTTATAAACAGCATGTAGTT
TATGTTTTAAGAAGCCAGCTTCACAGTCTTTATTTTTAATTGTAGCATTTAGACAGTTTATATTTAATACGATTACTCT
AATTTTGGGTATAAATCTACTCTAATTTTGGGTAAAAGCACCTTTACTGATGCTTTCTAACATTATCTTCACTTTCTTG
CCTTTGTTTGGATTTTGGAAATAATTTCATGGTTTCTCCTGCTAATTTTGAAACTTATGCACTGTTTCCAGTCTTCTTG
TTGGATTCCCTAGGAATTATGTCTTTTATACTAACATATCAAAGTTTAAAGTTAGTCAGTATCTTTTCCCTCATCCCAG
ACTATTTAGGGACCTTAATGCAGTAAGAACACCCCTTCCAATTAGATATTATTATAATGTATTATGCTTTATTGCTTTTT
AAACTTCATAATATATTGTTGTTATTTTATATAGTCTTTGTTTACTAGACTTACCCATGCATTTTACCACTTTTTTTCT
TCTTAAAGTAAATTCTTTAGAATTTATCTGCAGTAAGGGATTGCTTTGTTTTTGTCTGAAAACTTTTTAAATTTTGCCC
TTATTCTTTTTAACAGCTTTATTGAGATATAAGTCACATAACCATACAATTCACCCACTTACAATGTATAATTCAGTGA
TTTGGGGTATGTTACTTTTTTTTTAAGTTGTGGTAAAATATATATGGCAGAAAATTTGTGTTTTAGCCATTCAGTGTAC
AATTTAGTGTAAAGAATGCCATCATTGTTTAAAGATAGTTTAACTGTAAGTTATGGACTAAATATTTGTCTCCCCAGAA
AACTCATGTGTTGAAATCCTAACCCCCAAAGTGATGGTATTAGGAGATGAGGCCTTTGGGAGGTGATTAGGCCAAGAGA
GTAGACCATGAATAGAATGAGTGCCCTTATAAAAGAGAACCCACAGAGCTCTCTTGCCCTCTTTCTATCGTGTGGGGAT
ACAATAAGAAGTCAGTAGTCTACAACATGGAAGAGAGCCCTCACCAGAAATGGACCATGCTCACACCTTGATCTTGGAC
TTCCAGCCTCCAGGATTATGAGAAATAAATTTCTATTTATAAGCCACCCAGTGTATGGTACTTGTTATAGCAGCCTGAA
CTGACTAATACACTGTGTATAGAATTCTAGGTTGATAGCTATTTTATTTCCATATACTGCAGTTATGCCTTTGTTAGCT
GGCTTCCATTACTGCTGTTTAAAAGTCAGCTGCCACTCTAGATATCACTTCTTTATCAATAATGTGCCCCTTTCTTGGC
AGGCTGCTTTTCTCTCTGTCTTTCGTGGTCTTTCATTGATGTTGCTATATCTTGGTGTGTACTTTTTAAATAATTATCC
TGCTTGGGATTTCTTGAGCTTCTTGAATCAGAAGTTTGAGGTCTTTTGTCAGTTTAAATATTGCCTTTGTCACAATCTC
TCCTCTGCTTTTGAATCTTTAATTAAATATATGTTAGCTCTCACTCTGTCTCTTAATCTCAATGTATGTCTGTATTTTN
GTGTTTCTATGCTGCTTTCTGGATAATTTCTTCAGAATGTTCTTATATTTCAGCACTTCTAGTCTCCTGTTCAATTCAT
ATATCCACTATTATGGATTTTACATTCATTTTACTGTCCATTTTACAGCTCAGGAAACTGAGGCTCAGTCAGGTTGTGT
AATATNCCTAAGATTACTCAGCTTGCAAGTAAAATAGATGGCAGTCAAAACAAGCACTGTCTAACTGCAAACCCCAGGC
TCCTGACTAATGTGTTTCCAGTGAGCAATGTTTTATGGTTTTTAGCACATTTACTTTGGATACTTATGTATAAGCTCAT
TTGTCATTTTTCAACCTATACTTTAAAAAATTTAAGATCTCAAATTTCTTTTTGATTTGCAGCATTTTCATTGTCTTAA
CCAGCTTTGCCAAATTCATTTCCAATTTCTTTTGGTCTCTTTCTACAAATATATGCTAAAGATTTTTCATCGAATTTTC
CACAAATTCCCACAAAAGATACTGCAACAGTGATGAAAACAAAGTCTTTCTTTGATGCTCTATAGACATAAGCATGTAT
TTGTTTTATTTTTAGGTATGATTTTTATAGTATTTTTCATTTTTATGTATAATTGCTTTTATTTTTAGGTATGATAAGT
CAAAAATGTCATAGGGAGTATCATTGCCCTAAGAGACTCTGGTAAGAAATTTATCAAATGAATGTTCCATACAGAAAAT
TTTGAAAGAGTACTACAGCAAATTTTCAAGGTTGAAGACACTCTGTATGAGCAGGGTGATGGAATTCAGCCATTTCTCA
TTTTTATTTCTCACACGTCTTTGTGTTCCTGCATCTGCCTTCAGGGAAGTCGTGTCTGGGAGTCTAGCAAATTTAATAG
ACATATGGGTCACGACTTAGCACTTATGTTATCCAAGAGTTTGGTTTTGATTCCCACATATAGAAGAGTTTCTGCACAT
TGTTATAGGAAATATAACTTTTAAAAAGCTGATGTTTGTGAGCTGCTTGTGTACAGGAAGAAGAAACTAAAAATGTCTT
ATGTTTGGAAAGTCACACAAATCTTAAATCATGATTAAAAGAGGAATCAGTTAAAATGGTCCCTAGTTATATGGGTGTG
GCTGTGGTAAATCATTACTTTTACCCTCAAGAACAAAACCCTATATATGTCAAAGACCTAGGGAAAAGTAAGAGTTTTA
TTACCTATCAAAAATCAGTATTTAGGAGAGATTCAACTGTATTTATATTCATCATCATAGTATTTTGAAGTACTCACTT
CAGCATGAAACATAGGAAATTCCAATTTTACAGCATTTGCGATCGTGCGTTTTCTTGCTTAAGACAATATAACCTGCAG
AGTGTAATACCTTGACATCACTGGGTCTTCCAAACAAGTTGCCGTAAAACATAAACTATGATTATTGAGTCTTAAAGAA
ATTATTTGCTCATGGGTACTCAAGTGATTTGAAAGTTGGGATCTAAGACCACGTTAATGAACAGAATTTGCTACTTTGT
ATCAACTTGGAAATATATTTCTTATTTAATTTTGTAGAACAAATATACTTCCTGGGATAAGTGGAGGATATATTAAGTA
CCCTCTGATGAATTTTTTCAGTGTCTAGTTAACTTAACGTTTAAATTTTCAATTTGAAGAAATAAACTGGGAACAGTAA
TGGGACAACAGGGTGCTAACCCAATAAAAAAAGTCACTTTCAGTTTGTTAGTGCATATTTATGTTGCAATGTAAGTTTC
ATAATTAAGTAGTGAATCTAAGTTAAAATTCTGTTTACAGTTTTTGCAAATTTCACCTTGGAGAATTGTTGAGTGAATT
GTTTGCTTCATTTGAGGATGTAGAATAAATTATATTTTCCATAAAATGTCACCAACAGTGCTTATTTCCAAACAAAAAA
TAATTATGTATGTGGCTAGGTCTACTCACTTTGTAATACCTCTTTTGGGGCTCTTCTGTCAGAACTGAGGACACTTACA
GTATCTAGAGCCTTTTCTAGGGAATATAACAAAAGCTTTTCTCCCTCTTCTAGCCCCCACAAATTTTACATCTTGCTGC
CAGCGTATCTTTCAAAATAATAACAAGGTAGTCTTCTTGAGTAGTTTATAATGGATTTCTTTCTATGTTTAATAAAGCA
AATGAAACTTAATTTTTAAAAAAACTAGAGGACTAAAAATTATTTTCATGAGAACTAAGTAAAATATAATTGATATTTG
TATTAGTCCATTCTCATGGTACTATGAAGAAATACCTGAGACTGGGAGATTCATAAAGAGAAGAGGTTTAACTGACTCA

Fig. 6.9

CAGTTCTGCATGGCTGGGGAGGCCTTAGGAAACTTACAATCATGGTGGAAGGTGAAGCAAACACATCCTTTTTCACAAG
GCGACAGGAGAAGAAGCGCCGAGCAAAGGGGAAAAGCCCCTTATATAACCATCAGATCTTGTGAGAACCCACTATCAT
GAGAACAGCATGGGGATAACTGCCCCCATGATTTGATTACCTCCCACTGGCTCCTCTCACGACACGTGGGAATTATGG
GAACTACAACTCAAGATGAGATTTGGGTGGGGACACAGCCAACCACATCAATATTTAAAATTGAAGTACTTCAGTTTTG
ATTAGTGTAGACTAATACAACATGCGAATGTAGAGGCCTTTTGCTCACTCTTCCCACTAAGAACTCAAGACCTTTGAAG
GGTCCTGACAACAGACATTTCAGTGATAATTTACCAAGATAGCAGAACTGTTTGTTGCTAAAAATAGTTATGCAGGATA
AAATGCAATCTATAATTTTATGAGAACCTGTGATTCTAGTTTACCTCCAATTACTAATATCCATATCTATGTTTGTATA
TTTTTTAATCAGGTGTGTTTTGGACTCAGAAGTTATTAAAAATTCAGTCAAATGATGGGAGTGATGTTTTGAAGATTAG
AATCATGTAGCTGATTCACATGCGTTATTAGACCATGATAAGAAGCACAGAGGAAATATAACAAATGAAATCAGCCTTC
TTGCCTACTGATTCTGCATAATTTTAAAAATTAAATTTGGGTTTTTGTCCATATGCAAATTTGTCCTAAAAATTTCCAT
CTTTTGAAAGCGTTTTGATACTTAGAAAAAAAAATTTAAGACTTTTCTAAATAGAATATACAAGATGGTACAATCTGAT
TGGATAATAATGCATCAGTGTTCTAAGTTAATAATTGTCTAAGGCAATAATTAACATTTAAAACATGCAGTGACATCAT
TTCTGAATTTTTTTCTACTTTCTACTTATCAAAATGCCAAATATAATTATACACAATTACTGCTTAAAGATGATGAAGG
TTTTGATTTCAGAAAGTTCATCACTCTTACCTTTTCACAGAGAATTTAATTTGATGATCTATTAAGGCACAACAGGTGT
CTGATTTAGCATATTTGACTATTTTCACAAGTCACAATCCATCTAACAAGGACAGATGTTCCCAGTAGAGGTCAGTCTT
GTGTTGATAGTTATTGTATCATAAAGGAAAAACTAGGGATTTTATGTTTAAGTCCAGTATATTTGATATAGGTAGTAAG
CCATTAATTGTGGAAGAAAGAAACTTAAAGATTGGTCATCTTTATTGTAACAAAAATTACTGTGGGTAATATTTTGGGT
CCTTTATTACCATATGTTTTCCTCAAAACCCCAGAAAGCTTAACTGCTTGCTAAATACTCCCTAAAAGGAACTTACCAA
TGGTAGAAATGAACAATTATCTAAACGTAGCAACAGATAATTTGGGATAAATGTCAGATTATTGGATTTGAAACTGAAA
ATATTTCTTGCAAATTTCAGTTTGAGAAGAGAAACACAGAGGTAGGATAATTTCACGCATCAGCCCCTCACCTTAGCTG
TCTTCTCTGCAATATGGGGACAACTGTGCTTGTTCTCTTTCCCTCAGATAAATCTTGTTTTATTCCTCAGACTAATGTT
TTGGTCTATAAACCGAGAATTTTATAATAAATGCGGAGATGGCAATCGGAGATAAAGCATATGTTTACAAGTAATGCCT
TTGGAGTTGTTGATGCCAAAATACAATAAGCAGTCAAACCAGCATAGCCCAGGAAACATCTTTGAGGTTACTGAGATGA
TAAATGACTTTACTGCAGGTAGATGGTGTGATGGAAAGAGCAGTGTGTTAGCAGCAGTGGTTCTGCCACCAGATAGCTT
GAGGAGGCTTTAATTTCCCACACCTTAAATAAACATAATTAAGTAAACTGTGTTTGCTATGCAAATACAGTCTAAAAGC
AAGACTCCTAGTTCCTTCTTTCGAACTAAATTATTACCCAACGGTCCTTCCTATTAGAATTGTAGCACCAATATTAGT
TAGAAATCAGAATATTTGGATTTTAACTTGTGGCACTGCCAGTTGGGCAAGTGACCTTGAGCAAGTCACAACCTCTCTG
AGATTTGTCTTTTTCTCAGTAAAGTGAAGGGATTGGATATGGAAGGAACAAACTCCAGTGTTTTCCAGGACAGGAAGAT
ATTAGAAGTTGCTGAGAATGGAGGGGTCAGTGGAGAAATGGAGTGTGCAGACCTTACAATAAGGTATCTGATAGAAACA
AAGTGTTGAATGCTCTATGTTGGCCAAACTTATGCTTTATGTAGAGGTGGGCAGACAGATGCAGGTAAGAAAACTGGGA
GAGAGGTGCCCAGTTACAAATGCAAAACTTCAACTCTGGTCTTCTGTCCGATGATCTGGAGTTCTTCCCACTTCGCCAC
ACTAAGTCTTGTCGCTGACAGGAGTGTGTGGGCTTGATCTAAGCAAATCTCTGAAAGAGAGGGCTTATATTTGGTTCCC
TTTATCCTCCATCTATGCCCCTTCTTTATTTTTTGGGTCCCTTTCTCTTTATCCACTACATCCTTAGTTGTGCTCAGGT
GTTTCCTGAGCATGAGCTTTGTAGGCGACACATTTCAGGAGCTGAAACAGCCCAGACCCCACCTCTCTTTTCAGGCTCC
CCACTATGATGTTGACATTTGCCCTCCACAGAGCTTATACCAGGCTGCATTATGTTTCTTCATGAAGACTAGTTAGCTA
AGCAAGTACTTAGAGCCCTTTCATTCATTCAGTTTATTGTAGAGCCTTAATACTGCAGATGCTAGGCTGGGCAATGATG
AAGGGAGAAAGACGGCTTTAACTCTGAAGGAGCCTCAGCCCAATGAGGAAAGCAATATGTCTACGTGTAACTCTAGATG
ATGAAATCAGACCCCTGTAGTGTGCAGGGTACACAGAGGAGAGATAATTTTTCCAGGGCAGTGGAGGGATATGCAAGGT
GTTACTGAGGAGCTAATATTCAAGCTGAACCCTGAAGAATGTGTCCACTAGTGAGGAAGGCAGGGCAGAGGCATTTTCT
CAGAGGAAATAGCATGAAATAGGATCTGGTGACAACTAGAAATGACTTACCATTCCATGTGGTCCAGGTAATGCTAATA
CTTCAATATAAAGTCTGACATGGCTCTCTGTAAAGGACTGAGTAATAAGGGGATTTCATGAACTGTGGCCAGGCAGGCA
GCGGACTTATTTTTAAGTAAGGAGTTTTTTGGCACCTGTCAAATAACATCTCCGAGATGGCTTCCTTTACATATTCCAG
GTCAGTTGATCCAGATCTCAATGCTCTTTGCAATTTTTGGATTCTTAGTAGGTTGCTGCTACACCATGGTTTCTCTTTC
CACATTTTCACAGGGCATTCCTGCATTAGTCTGTACTGATGAGTTTACAATGGTTGCAATAATTGTTGGTGTTGATGAA
CCTTCCTTGCACTTTATGTAAAAGAGTGATCCTTTTATTGCCAGTTTCTATTTTTCCATCAACAGCCTGATATTCCATG
CCTCTGGGTCCATACTGTTCCATTTCATAACATTTAATGAATGTTAGAAGTGGCTCTGCAAATGCATTGCCTTAATCTT
GTTGCCTGCAGTGAGATGCTTTTAATATTTTCTCCACATGTGAACTCAGTGTTTTCCTTTAGGTTTTCTTTAATTTCCA
TGTGGTTAATGTCACTACTGCAGGGAGCCTGGATATTTATAGATTTTTCCCTTTCACTCTATCTTCAATAATTTGCTTT
TGCATTCAGTGAACACATCCATCACAATAAATGGTCCTTTTCTCATTTGTATTGACTTGCATTTATATAAACCAGACTT
CCTTTTTATAGTATTATCAATGTTCATGGCAATTTTCAGTAGCTTGGGGAGCTGGGTATGAGAGTTGGCACAGAGCTGC
AAGTTTTCAAATGACTCATGTCATGATGCCTGGTTTCAAGCTTTATCATTAAGTCAAGACCAAAGTTATATGGGTTTTT
TTCCTTAATTGCCTCAATATAAAATGAGAGTATTAAATAAGCATCTCTAAATTATTCCCAATTTCATTAAAATGTTCTT
GATTTGATAGCCCTTTTGTGCACTGAAAGATGTAAAATATTCCAATTACATTGTTGACTATTCATAGTCAGTTCAATGT
TATAAACTTGTATAGCTCCTAGTAGAAATAAACAGGGAACTGAGTTATATACAGTTCATATTGATCATTCTTAGATGCT
ATTGCTTTCTGATAGCTCAATTTATTTTAACAGAGTCTACAATGATGTCATTTTAAAATTATTATTTTAATATTTCATT
TATATTCTTTTAATATAAGTTAATTTTTTCCTATCACTGTGCATGTCATTGGTTTGCAGATTGTTGGGAAGAATATCAC
TGGCAGGACTTGTATTGCTGTTCTTTAGGCAAAAGCAAACTGGTCAACCTAATCAAACTTTTTCTAGCTTGTGGAAGGC
CTCTCAGAAAATATCTTTCAGAAGTAGCTCTGTGTGCTCAGACCCCTGGAACCAGTCATTCTGCTGCAACAGAGGCCTG
TGCTTTCCTATTGCCACCCATTTTCACTGCTCAGTGGCCTCTTCAGATATTAGTGCTATTTCCATAATTCTAGTTGCAT
ATGCTTTTTTGTTTCTTACCTATGCCACTTAAATATTGTGACATTTTGGGAGCACTTAAACATTTACTTCAAAACTTCA

Fig. 6.10

CATCTTTGTGGTATTTTTCTATAGTAACTTGTGGTTGTTAGAAATGCTGAAAATAAATGGTGCTGGGATAACTGGGTAG
TTAAATGTGGAACATTGAAACTGGACCCCTTTCTTTCACCATATAGCAAAATCAACTCAAGATGGATTAAGGATTTAAA
TATAAAACCTAAAACTATAAGAATCCTAGAAGAAACCCAGGAAATACCCTTCTGGACATCAGACCTGGCAAAGGTTTTA
TGATGAAGATTCTAAAAGCAATTGCACCAAAACCACAAATTGACAAGAGGGACCTAATTAAACAAAAGAGCTTCTGCAC
AGCAAAAGAAACTCTAAACAGAATAAACAGACAACCAACAGAATAGGAGAAAATATTTGCAAACTATGCATCTGACAAA
GGTCAAATATCCAGAATCTATAAGTAACTTAAACAAATCAACAAGCAAAAAAACAACCCATTAAAAGTAGGCAAAGGAC
ATGAACACTCATCAAAAGAAGAGAGATGAATGGATGAATGGCCAATAAGCATATAAAAATGCTCCACATCACTAATCAT
TAGAGAAGTTTAAATTAAAACCACAGTGAGATACCGCTCATACCAGTCAGAATGACTATTCTTAAATAAAAGTAAAAAA
ATAACATGCTGGTCAGGTTGCAGAGAAAAGGGAATGCTTATACAACTGCTGGTGGGAGGTAAATTAGTTCAGCCACAGT
GGAAAGCAGTTTGGCTATTTCTCAAAGAACTTAAAACAGAACTACCATTCAATCCAGCAATCCCATTACTGGGTATATG
CCCAAAGGAATAGAAATTGTTCTACCATATAGACACATACATGCTTATGTTCATTGCAGCACTATTCGCAGTAGCAAAG
ACATGGACTCAACTTAGATGACCGTCAGTGATGGACTAGATAAAGGAAATGTGGTTCATATATACCACAGAATACTATG
CAGCCATAAAAAAGAATGAGAGATCATGTCCTCTGCTGGAAGATAGATGGAGCTGGAGGCCATTAACCTAAGCAAATTA
ATATGGGAGCAGAAAACCAAATACCACATGTTCTCATAAGTGGAAGCTAAACATTGAGTACACATGGACACAAAAAAGG
GAACAAGAGACACTGAGACCTAGTTGAGGGTGGAGGGTGGGAGGAGGGTGAGGATTGAAAACTACCTATGGAGTACTAT
GCTCATTTTCTGGGTGATGAAGTAATCTGTACCCCAAACTCCTATGACATGCAGTTTACCCATAAACAAACCTGCACA
TGTACCCCCCGAACCTAAAATAAAAGTTGGAATGGCAAAAAAAGAAATGCTAAAAATATATTATTTCATTATCCCAATA
AGCTCTTACAGTAATTTTTTTATCTGTGTGGCTTTTTTGGGGGGTATATCTCCAGTATAATTTAAAATAATCAGTTAAT
TTTTGTTTTCTGGATTCAGTCATCTTTACTACCATATTAAATTATTTCGAAGACATATTTTTTTTCTCCACATTTTAGC
ATCTCTGAAACTAGAATGCATCTTTCAATTAAGGATGTATCACAGTTTAATTGGAAGCATTTTTTTTGTAGTGGTAGAA
AAATTAGTTGTGTCCTAGATTTAATAAAATGTGGCATTTTATTTTTATTTTCCAAGGACAGATAATGGAAGGTGGTTCA
TTTGTTTATGCTTTGAGTAAGCATTCCTGAGTATTCTCTGAGCTTCTTTTCTGTCCCAATCTTTTCTATGCAAGTCTAT
CTTCTATCTTGTTCATTTATTTATTCATTCTCTGCAATTAGTAGAAGTATTTAACAGAAGGTAAAAACATTTGAAATTT
TTTTACTCTNCTCTCCTAAATTTCTATGCATATGACTTTATACCTGGTCAGGCCAAAGAATTTTTGTGTAGCAGGGGAT
GGGAGAAGGAGAAATTATGGGAATAGTGGTGGGATTAGGACTTTTATAACAAGAATGCAAAGAAGAACCAGTGTTCAGC
TTTTAATTACTGTAGGATGTTTCTAATAATGCTGGCAATGAGGAAAGCTTGACTTTGTCAGGAGAAGGAAGGATTTTCT
AAATTTCTTTAAAGCTCAGATATGTAGTAAAAGAAAAATTTCTAGAATTTCTTCCAGAGTCTCAAGGTACTGGTTTATC
TAGAAAGAATGATTTGGATTAGAGCAAGTAGATGCCCTCCCCTTTTGGTCTCATGGAATAAGAGTCCCTGTTTTTTCCT
TAAGGTCCTTGCTTTTCCCCTTCTTAGGACTGTGTCTCAAATGGGGTGAATGTAGAAACATCAGGAAAGGCATGGAGGA
GTCTGAGAACATTTGAGCTAGTGGTCTGCTCCTCTGTCAAAGCATGAGGGAGCACACAGACATTAGTTGGCTCCACTTC
AGGCTTCAGGTCTGGGACACAATCAATAGTGAGAGAGCAATGACATGGAGGTAACCTTGGAGACAGCTAGAAGGATTGA
GACTGAGGATGTGCTCCTGGCTCTCCAGGGCCTGCGCTTGGTGTGCAGGGTATTGTGTGGGTTTCCATGCCTGGAGCTT
TTCTACTGCCTCAGGGACCTCTGAGGCCAACAGATCAGAAAAGGCTGTATCAGAGTGAAGAGACTGTAATAGAAGGAGC
CTTTAAGACTAGAGGCCAGGATCAGTTTCTAGTAGTGTTTGTCAGCATTTTCCACCCCAAACCAAGTGTGAACAGTTTT
ACTCATTGTAACTGGTCCAGGGAGCTGAGCAACTTACCTACCTGCAGTAGAATACAGTGGAGATTCAGAGAACATCTCT
TGAATCTGAGGTCTGCCTCTCTCTGTCTCTGTCTCTCTCTCTCTCTGTCTCTCCCTTACTCTGTCTCTGTCTCCTTCCA
AAAAGAATAAAGTAAATGTCTTCACATACCTAGATGCCATCTTTGGGAGGAGAAGAGGGTAGGGACAGAACTCTGAAAT
GCAAGTGTATCTGTTTGGGTTCAATCAGAAGATAGAGAACATACAGTAATCTGAACAGGGGAATTTTAATATAAAGATA
ACTATTAATATAAATATAATTACTAAACAAAAATAAAAGAGTAGCTATAAGATGTAAGAAAACACATTATTGTACCCTG
TGACTGAATGAGAGTAGTCAGGAAAGACAAACTCGGAAGGAGAGCCCTCTTCTTGAGGCTGGAGTTCAGACCTCACTGG
AGAACACGAGATGCAGATCTCTGGATGTTAGAGGAGTTTCCCTGGTTTGCCCATGCCAGAGCTGGTCTGTAGTCACTGG
GCAAGCAGAAGTAATCCTCTGGAGTGCAGGTGGGGCACAGGTGAGCTGCAGCTGGTGGCTGGGTGGGTACGCATGTAGA
GAGAATGGGGATGCTGGTGGCAACCCCTCTGGGGAGTGGCAGTTTTCAGTTACCCATGGCTGTGTAAGAGGAGTGTGCTG
AGGGTTTGGGGGTACCAGTGTAGGCAAGAGGCCTAGAGTGTGCAGTATGCAGATTGTGAGGGTGTGGGAAGGTGATCAG
GAGTCCTGGCCTACGCTGTAAGGTGGCCAAGGGACTGCACCTTCTGGACTAATGGCTGAGGCAGAACACCACTGGAGTC
CTCACACCCACACCGCTGGCCCACTGTGCAGCAGCAAGAAACAGCAGAAGAGTCATTTCCTCCGGCATTGCCCCTCCAG
CACCTTTAACTGTGAGAGTTTAGTATCATACACACTATAAAGGAGAAATGCTTAAAGGAATTCTGTTCATTATCACAGA
GCATGTATTGAATGGTGAATTTGGAACTGAAAGGTGGTAAGTTGATAACTGGCACAATAAATCTTTATTCAGAAGAGAC
TAAATCATCCAAAAGAAATTCTAACAGCTGGCACTCTTTTAATGGGCTTCCAATGAACAGAGTTGTTGGATTAACCAAT
GCATTCTGTATCCTCCATAAAATTGTATATAGATTCATGTCCACTGTGTGGTGTTGACTCATAGCCAGTTGGCTGTGCT
CTAGTATACCATTGTACCTATGTTTCCATACCATTTGGGAGCTGTGTTTATTCTCCATATGTTTATACTAGTTGTATTA
AGTATCTATTTATTCCAAGTCTATTTATAGTAGTTGTATTAGTTTTCTATTTTCTAACATATTTTTATTTCTATTTTAT
AACAGATAATCTGAAAACTTAGTGACTTAAAACAACAATAACAACAGTGGACATTTAGTCTGCCACAGTTTCTGCAAAT
CTTGAATTCTGTTTTGCATAATCTGGGTAGTTCTGACTTGGGGGTTTCTCAGATGTTGCATTCGAGTTACTGGATGGGC
CTGCAGTCATCTGAAGACTTGACTGCAGTTGTAGGAAGGAATTCCAAAATGGCTCACTCATGTGGTTGACAAGCTGATG
AGGGCTGTTGCCAGGAGCGTCAGTTTGTTGCCATGGAGATATCTCCACTAACTGAGTACCCTCATGACATGACAGTTGG
CTTACCCCAAGTTGGGTGATCTTAAAGATAGTGAGGCAGAAGCCACAATGCCTTTTATAACAGTCTCAAGAAGTCACGA
AGTGTCATTTCTGCAATATCCTGTTGGTTACACAGCTCACCCTTTTTAATGTAGAAGAGGACCACACAAAAGTGTTAAT
ACCAGGAGAGGCCACTGGAAGCTGTCTTGGCTACTGGCTACCACACTAATATCTGTTATTGTAATCACAAAATTTAATT
AAATACCATAAAAACAATTGAAATATGAATATAAAGTATTTTTTTATAAAAACTAAGTGCTTTCAAAAAACTTCTTAA

Fig. 6.11

AGTATAAAAAAATCTGTTGTATAAAATGAGGCTAAGACAACTAAGAAATTGAGGATATTTTGTAAAAATCTGGATGGAT
TCTGCTCCCAAGTAACTTTGCAAGTGACATGAACTTTTTTTATTCCACTTTAAAGAAATTAATTGGTGATGCAAAAAGT
TTTGGAGTAATAAATGGCTTGAATGTTAAGGGAAAAAAATACCCAACCCAGCATGATACCCATATACTAAGCACCATTA
GGGAGAAATTATCTTGCTGTTCTAAAGAGTAATGAAGTTAATGTCAATTCTTGAGAGATAACATTTGATTGAAGAACAA
GTCTACAATACCACATCATAAGCTATTATCTACAAAAATGGTAATAAGAGCATAGGTATGAGGTTTTAATAAATAATAT
TTTACAACAATCAGTAATATTTGCAGCAATGCAACTAGAGTAAAAAATTGCTGTTATTGGCAAATTGACAAAAGAGGTT
TTAGAAATAAAAAATATATTATTAATCTAACTACAGTACCAAAAATAAATTTGGAAGAATACTGAAGTTTTCATCTATC
ATGACAGTAGAGATTAAAAAAAAATCAAAAAACAACCACCCAAGCCATGGTGCCTATATCAGTTTTCAATTGTAGCTTA
ACCAAAATCACCCTAAAATTTAGTAGTTTAAATAAATGGTTTATACAACAATCATATTATTATCTCTCGGGCTCTCTGT
GAGTCAGGAATTCAGACAGAGTACAGTAGGGATGATGGGTTATTTTCCCACTGTGTATAGAGCCTCATCTAGGAAGACT
TGTAGGCTGGGAATGACTCAACAGTTGGGGGTCTGGAATCATCTGGTGGAATCTACATTCACTTGTATTGCAGTTGATT
CTGCTTATCATTTGGAATTCCAGCTGGTCTTGCTAAAGCACATACACATGGCTCTTCCATGTGACCTCTGTGTTTGTTT
GGGCTTCCTTACAGCAGGGTGGGTGCCTTACAAGAATAAACATCACTGAGAAAACCAGAAGAAAGCTGTATTGCCATTT
AGGACCTTGCCTTTGGAAGTCTCACAGCTTTACTCCCTTTGTAGGCTCCATCTTGCTCAGATTCAGGTGGAGGGACCAT
ATACACCACATCTTGATAGGAGGGTGGGTATCAAAGTCACACTGTAAGATGGTCATGCAGGATGGGAAATACTATTGTG
GCAGTCTTGGAAACTGCAATCTGTGCACATACACACACACACACACTGGGAACAATCTTACTTCCTAACTGTATGAACC
TTAAGGATGAAGATATGTAAAGGCCATATTTTTACCACTGAATATCATGAGAAAGTGTTTTAGTTCCATTTTGAAAAGA
TGGAATATGAGAAGATGAGTTTATAGAATTGATAAAATTCCTCGTTGATATGGTTTGGCTCTGTGTGCCCATCCAAATC
TCATGTTGAATTGTGATCCTGAGTGTTGGAGGAGGGGCTTGGTGGGAGGTGATTAGATCATGGAGGCAGATTTCCCCCT
TGCTGTTCTCATGATAGTGAGTTCTCATGAGACCTGGTTGTTTAAAAGTGTGGCACTTCCCCATTCTCTCACTCTCTGT
CTCCTGCTCCACCATGGTAAGTCATGCTTGCTTCCCCTTCGCCTTCTATCATGACTGTAAGTTTCCTGAGGCCTCCCAG
CCATGCTTCCTGTGCAGCCTGAAGAACTATGAGTCAATGAAACCTCTTTTCTTCATAAATTACCAAGTTTCAGGTGGTT
CTTTTTAGTTTAGTTGAGAACTAATACAGAAAGTTGGTACCAGAGAAGTGGGGCATTGCTATAAAGATACCTGAAAATG
TGGAAGTGACTTTGGAACTGGGTAATGGGCAGAGGTTAGAAGAGTTTGGAAGGCTCAGAAGAAGACAGGAAGATGGGAA
AGTTTGGAACTTCCTGGGGACTTGGTGAATGGTTATGACCAAAATGCTGATAGTGATATGGACAGTGAAGTCCAGGCTG
AGGTGGTCTCAGATGGAGATGAACTTGTTGGGAACTGGAATAAAGGTCACTCTTGCAATGCTTCAGCAAAGAGACTGGC
AGCATTGTGCCCCTGCTCTAAAGATCAGTGGAGCGGCTGGAGCCAAGATGGCAGAATAGGAACAGCTCCGGTCTACAGC
TCCCAGTGTGAGCGATGCAGAAGACAGGTGATTTCTGCATTTCCATCTGAGGTACTGGGTTCATCTCACTAGGGAGTGC
CAGACAGTGGGCGCAGGTCAGTGGGTGCAGCACACCGTGTGCGAGCTGAAGCAGGGTGAGGCATTGCCTTACTTGGGAA
GTGGAAGGGGTCAGGGAGTTCCCTTTCCTAGTCAAAGAAAGGGGTGACAGATGGCACCTGGAAAAGCGGGTCACTTCCA
CCCCAATACAGTGCTTTTCAGATGGGCTTAAAAAATGGCACACCAGGAGATTATATCCCGCACCTGGCTCGGAGGGTCC
TACGCCCATGGAGTCTCACTGAATGCTAGCACAGCAGTCTGAGATCAAACGGCAAGGTGGCAGTGAGGCTGGGGGAGGG
GAGCCCGCCATTGCCCAGGCTTGCTTAGGTAAACAAAGCAGCCAGGAAGCTCGAACTGGGTGGAGCCCACCACAGCTCA
AGGAGGCCTGCCTGCCTCTGTAGGCTCCACCTCTGGGGGCAGGGCACAGACAAACAAAAAGACAGCAGTAACTCTGCAG
ACTTAAATGTCCCTGTCTGACAGCTTTGAAGAGAGCAGTGGTTCTCCCAGCACGCAGCTGGAGATCTGAGAACGGGCAG
ACTGCCTCCTCAAGTGGGTCCCTGACCCCTGACCCCCGAGCAGCCTAACTGGGAGGTACTCCCCAGCAGGGGCAGACTG
ACACTTCACACGGCCGGGTACTCCTCTGAGACAAAACTTCCAGAGGAACGATCAGACAGCAGCATTCGCAGTTCACAAA
AATCCGCTGTTCTGCAGCCACCACTGCTGGTACCCAGGNAAACAGGGTCTGGAGTGGACCTCTAGCAGACTCCAACAGA
CCTGCAACTGAGGGTCCTGTCTGTTAGAAGGAAAACTAACAAACAGAAAGGACATCCACACCAAAAACCCATCTGTACA
TCACCATCATCAAAGACCAAAAGTAGATAAAACCACAAAGATGGGGAAAAAACAGAGCAGAAAAACAGGAAACTCTAAA
AAGCAGAGCGCCTCTCCTCCTCCAAAGGAACACAGCTCCTCACCAGCAACGGAACAAAGCTGTATGGAGAATGACTTTG
ACGAGTTGAGAGAAGAAGGCTTCAGACGATCAAACTACTCTGAGCTACAGGAGGAAATTCAAACCAAAGGCAAAGAAGT
TGAAAACTTTGAAAAAAATTTAGACGAATGTATAACTAGAATAACCAATACAGAGAAGTGCTTAAAGGAGCTGATGGAG
CTGAAAGCCAAGGCTCGAGAACTACGTGAAGAATGCAGAAGCCTCAGGAGCCTATGCTATCAACTGGAAGAAAGGGTAT
CAGTGATGGAAGATGAAATAATGAAATGAAGTGAGAAGGGAAGTTTGGAGAAAAAAGAATAAAAAGAAATGAACAAAGC
CTCCAAGAAATATGGGACTATGTGAAAAGACCAAATCTACGTCTGATTGGTGTACCTGAAAGTGACAGGGAGAATGGAA
CCAAGTTGGAAAACATTCTGCAGGATATTATCCAGGAGAACTTCCCCAATCTAGCAAGGCAGGCCAACACTCAAATTTG
GGAAATGCAGAGAACGCCACAAAGATACTCCTCGAGAAGAGCAACTCCAAGACATAATTGTCAGATTCACCAAAGTTGA
AATGAAGGAGAAAATGTTAACGGCAGCCAGAGAGAAAGGTTGGGTTACCCACAAAGGGAAGCCCATCAGACTAACAGCA
GATCTCTCGGCAGAAACTCTACAAGCCAGAAGAGAGTGGGGACAAATATTCAACATTCTTAAAGAAAAGAATTTTCAAC
CCAGAATTTCATATCCAGCCAAACTAAGCTTCATAAGTGAAGGAGAAATAAAATACTTTACAGACAAGCAAATGCTGAG
AGATTTCATCACCACCAGGCCTGCCCTAAAAGAGCTCCTGAAGGAAGCACTAAACATGGAGAGAAACAACCGGTACCAG
CCACTGCAAAATCATGCCAAATTGTAAAGACCATCAAGGCTAGGAAGAAACTGCATCAACTAACAAGCAAAATAACCAG
CTAACATCATAATGACAGGATCGAATTCACACATAACAATATTAACCTTAAATGGAAATGGACTAAATGCTCCAATTAA
AAGACACAGACTGGCAAATTGGATAAAGAGTCAAGACTCATCAGTGTGCTGTATTCAGGAGACCCATCTCATGTGCAAA
GACACACGTAGGCTCAAAATAAAGGGATGGAGGAAGATCTACCAAGCAAATGGAAAGCAAAAAAAAGCAAGAGTTGCAA
TCCTAGTCTCTGATAAAACAGACTTTAAACCAACAAAGATCAGAAGAGACAAAGAAGGCCATTACATAATGTCAAAGGG
ATCAATTCTACCAGAAGAGCTAACTATCCTAAATATATATGCACCCAATACAGGAGCAGCCAGATTCATAAAGCAAGTC
CTGAGTGACCTACAAAGAGACTTAGACTCCCACACAATAATAATGGGAGACTTTAACACCCCACTGTCAACATTAGACA
GATCCATGAGACAGAAAATTAACAAGGATGTCCAGGAATTGAACTCAGCTCTGCACCAAGCGGACCCAATAGACATCTA

Fig. 6.12

CAGAACTCTCCACCCCAAATCAAAAGAATATACATTTTTTTTTCAGCACCACACCACACCTATTCCAAAATTGACCAC
ATAGTTGGAAGTAAAGCTCTCCTCAGCAAATGTAAAAGATCAGAAATTATAACAAACTGTCTCTCAGACCACAGTGCAA
TCAAACTAGAACTCAGGATTAAGAAACTCACTCAAAACTGCTCAACTACATGGAAACTGAGCAACCTGCTCCTGAATGA
CTACTGGGTACATAACGAAATGAAAGCAGAAATAAAGATGTTATTTGATACCAATGAGAACAAAGACACAACATACCAG
AATCTCTGTGACACATTCAAAGCAGTGTGTAGAGGGAAATTTATAGCACTAAATGCCCACAAGAGAAAGCAGGAAAGAT
CCAAAATTTACACCCTAACATCACAATTAAAAGAACTAGAAAAGCAAGAGCAAACACATTCAAAAGCTAGCAGAAGGCA
AGAAATAACTAAGATCAGAGCAGACCTGAAGGAAATAGAGACACAAAAAACCCTTCAAAAAATTAATGAATCCAGGAGC
TGGTTTTTTGAAGAGATCAACAAAATTGATAGACCGCTAGCAAGACTAATAAAGAAGAAAAGAGAGAAGTATCAAATAG
ATGCAATAAAAAATGATAAAGGGGATATCACCACCAATCCCACATAAATACAAATTACCATCAGAGGATACTACAAACA
CCTCTACACAAATAAACTAGAAAATCTAGAAGAAATGGATAAATTCCTGGACACATACACCCTCCCAAGACTAAACCAG
GAAGAAGTTGACTCTCTGAATAGACCAATAACAGGATCTGAAATTGTGGCGATAATCAATAGCTTACCAACCAAAAAAA
GTCCAGGACCAGATGAATTCACAGCCGAATTCTACCAGAGGTACAAGGAGGAACTGGTACCATTCCTTCTGAAACTATT
CCAATCAATAGAAAAAGAGGGAATCCTCCCTAACTCATTTGATGAGGCCAGCATCATCCTGATACCAAAGCCTGGCAGA
GACACAACCAAAAAAGAGAATTTTAGACCAATATCCTTGATGAACATTGATGCAAAAATCCTCAATAAAGTACTGGCAAA
CCAAATCCAGCAGCACATCAAAAAGCTTATCCACCATGATCAAGTGGGCTTCATCCCTGGGATGCAAGGCTGGTTCAAT
ATATGCAAATCAATAAATGTAATCCAGCATATAAACAGAACCAAAGACAAAAACCACATGATTATCTCAATAGATGCAG
AAAAGGCCTTTGATAGAATTCAACAACCCTTCATGCTAAAAACTCTCAATAAATTAGGTATTGATGGGACGTATCTCAA
AATAATAAGAGCTATCTATGACAAACCCACAGCCAATATCATACTGAATGGGCAAAAACTGGAAGCATTCCCTTTGAAA
ACTGGCACAAGACAGGGATGCCCTCTCTCACCACTCCTAGTCAACATAGTGTTGGAAGTTCTGGCCAGGGCAATTAGGC
AGGAGAAGGAAATAAAGGGTATTCAATTAGGAAAAGAGGAAGTCAAATTGTCCCTGTTTGCAGATGACATGATTGTATA
TCTAGAAAACCCCATNGTCTCAGCCCAAAATCTCCTTAAGCTCATAAGCAACTTCAGCAAAGTCTCAGGATACAAAATC
AATGTACAAAAGTCACAAGCATTCTTATACACAAATAACAGACAAACAGAGAGCCAAATCATGAGTGAACTCCCATTCA
CAATTGCTTCAAAGAGAATAAAATACCTAGGAATCCAACTTACAAGGGACGTGAAGGACCTCTTCAAGGAGAACTATAA
ACCNNTGCTCAATGAAATAAAAGAGGATACAAACAAATGGAGGAACATTCCATGCTCATGGGTAGGAAGAATCAATATC
ATGAAAATGGCTATACTGCCCAAGGTAATTTATAGATTCAGTGCCATCCCCATCAAGCTACCAATGACTTTCTTCACAG
AATTGGAAAAAACTACTTTAAAGTTCATGTGGAACCAAAAAAGAGCCCGCATTGCCAAGTCAATCCTAAGCCAAAAGAA
CAAAGCTGGAGGCATCACGGTACCTGACTTCAAACTATACTACAAGGCTACAGTAACCAAAACAGCATGGTACTGGTAC
CAAAACAGAGATATAGATCAATGGAACAGAACAGAGCCCTCAGAAATAATGCCACATATCTACAAGTATCTGATCTTTG
ACAAACCTGAGAAAAACAAGCAATGGGGAAAGGATTCCCTATTTAATAAATGGTGCTGGGAAAACTGGCTAACCATATG
TAGAAAGCTGAAACTGGATCCCTTCCTTACAGCTTATACAAAAATTAATTCAAGATGGATTAAAGACTTAAATGCTAGA
CCTAAAACCATAAAAATCCTAGAAGAAAACCTAGGCATTACCATTCAGGACATAGGCATGGGCAAGGACTTCATGTCTA
AAACACCAAAAGCAATGGCAACAAAAGCCAAAATTGACAAATGGGATCTAATTAAACTAAAGAGCTTCTGCACAGCAAA
AGAAACTACCATCAGAGTCAACAGGCAACCTACAAAATGGGAGAAAATTTTTGCAACCTACTCATCTGACAAAGGGCTA
ATATCCAGAATCTACAATGAACTCAAACAAATTTACAAGAAAAAAACAAGCGACCCCATCAAAAACAAAAGCCAAAATT
GACAAATGGGATCTAATTAAACTAAAGAGCTTCTGCACAGCAAAAGAAACTACCATCAGAGTCAACAGGCAACCTACAA
AATGGGAGAAAATTTTTGCAACCTACTCATCTGACAAAGGGCTAATATCCAGAATCTACAATGAACTCAAACAAATTTA
CAAGAAAAAAACAAGCGACCCCATCAAAAACAAAAGCCAAAATTGACAAATGGGATCTAATTAAACTAAAGAGCTTCTG
CACAGCAAAAGAAACTACCATCAGAGTCAACAGGCAACCTACAAAATGGGAGAAAATTTTTGCAACCTACTCATCTGAC
AAAGGGCTAATATCCAGTATCTACAATGAACTCAAACAAATTTACAAGAAAAAAACAAGCGACCCCATCAAAAAGTGGG
TGAAGGACATGAACAGACACTTCTCAAAAGAAGACATTTATGCAGCCAAAAAACACATGAAAAAATGCTCACCATCACT
GGCCATCAGAGAAATGCAAATCAAAACCACAATGAGATACCATCTCACACCAGTTAGAATGGCGATCATTAAAAAGTCA
GGAAACAACAGGTGCTGGGGAGGATGTGGAGAAATAGGAAAAGTTTTATACTGTTGGTGGCACTGTAAACTAGTTCAAC
CATTGTGGAAGTCAGTGTGGCGATTCTTCAGGGATCTAGAACTAGAAATACCATTTGACCCAGCCATCCCATTACTGGG
TATATACCCAAAGGATTATAAATCATGCTGCTATAAAGACACATGCACATGTATGTTTATTGCAGCACTATTCACAATA
GCAAAGACTTGGAACCAACCCAAATGTCCAACAATGATAGACTGGATTAAGAAAATGTGGCACATATATACCATGGAAT
ACTATGCAGCCACAAAAAATGATGAGTTCATGTCCTTTGTAGGGACATGGATGAAATTGGAAATCATCATTCTCAGTAA
ACTATCACAAGAACGAAAAACCAAACACCGCATATTCTAACTCATAGGTGGGAATTGAACAATGAGAACACATGAACAC
AGAAAGGGGAACATCACACTCTGGGGACTGTTGTGGGGTGGAGGGATGGGGGAGGGATAGCTTTAGGAGATATACCTAA
TGCTAAATGATGAGTTAATAGGTGCAGCACACCAGCATGGCACATGTATACATATGTAACTAACCTGCACATTATGCAC
ATGTACCCTAAAACTTAAAGTATAATAATAAAGTAAAATAAAAAAAAAAAGAAGTTTTACATATAAAAATAAATACATA
TGTAAAGATCTGTAGAATTTTGAACTTGAGAGAGATAATTTAGGGTATCTGGTGGAAGAAATTTCTAAGCAGCAAAGCA
TTCAAGAGATGGCCTGACTGCCTCTAAAAGCCTAATTCATTTGCATAAACAAAGAAATGACCTGAAACTAGAACTTGTA
TTTAAAAGGGAAGCAGAGCATAAAAGTTTGGAAAATTTTCAGCCAGACCATGCAGTAGAAAAGAAAAACAATTTTCTAG
GGAGGAATTCAGGGCTGCAGAAATAAGCATAAGTAACAAGGAGTCGAATGTTAATAGCAAAAACAATGGGGAAAATGCC
TCCAAGGCATTTCAGAGGCCTTTGTGGCAGCCCCTCCAATCATAGTCCTGGAGGTCTAGCAGGGAAAAATGGTTTCATG
GACCAGGCCCAAGACCCCGCTGCTCTCTGCAGCCTTGGGACATGGTGCCCTGCATCGCAGCTGCTCCAGTTCCAGCTGT
GGCTAAAAGGGGCCAAGGTATAGCTTGGGCTGTTTCTTCAGAGAGTGCAAGCTCCAAGCCTTGGTGGCTTCCAAGTGTA
TTGGGCCTGTGAGTGTGCAAAAGGTAAGCGTTGAGGTTTGGGAACCTTTGCCTAGATTTCAGAGGATGTATGGAAACTC
CTGGATGTCCAGGCAGAAGTGTGCTGCAGGGGTGGAGCCCTCATGGAGACCCTCTTCTAGGGCAGTGCAGAGGGGAAAT
GGGAAATGTGGGGTTGGAGCCCCCACACAGAGTCCCTCCTGGGGCACTGCCTAATGGAGCTGTGAGAACGGGGCCACCA

Fig. 6.13

TACTTCAGACCTCAGAATGGCAGATCCACTGACAGCTTGCTCTGTGTGCCTGGAAAAGCTGTAGGCACTCAACACCAGC
CTGTGAAAGCAGCCATGGGGGCTGTATTATGCAGAGCCACAGGGGTGGAGCTGCCCAAGGACTTGAGCCCACTGCTTGC
ATCAGTATAACCTGGATGTGAGACATGAAGTCAAAGGAGATAATTTGAAGCTTTGAGATTTAATGACTCCCCTGCTGG
GTTTTGGACTTACATGGAGCCTGTAGCCCCTTTGTTTTGGTCAATTTCTTTCTTTGGAATGGGAGAACTTACTCAATG
CCTGTACTCTCATTGTATCTTGGAAGTAACTAACTTGTTTTTGATTTTACAGGCTTATAGGCAGAAGGGACTTGCCTTG
TCTCTTCAAAGAGTCTCATCTTTGTCTCTCATAAAAGATGAGACTTTGGACCTACACTTTTGAGTTAATGCTAGAATGA
GTTAAGACTGTTGGGAAGGCATAATTGTGTTTTGAAATATAAGAAGGATATGTGATTTGGGAGGGGCCAGGACAGAATT
ATATGGTTTGGCTTTGTGTCCCCACCCAAATCTCATGTTTAATTGTGATCTTAAGTGTTGGAGGTGGGGCCTTGTGGGA
GGTAATTAGATCATGGGGGCTGATTTCCCCCTTGCCATTCTCATGAGACCTGGTTGTTTAAAAGTATGTAGCACTTCCC
CCTTTGCTCACTCTCCTGCTCCACTATGGTAAGACATGCTTGCTTCCCCTTTACCTCTGCCATGATTATAAGTTTCCTG
AGGCCTCCCAGCCATGCTTCCTGTACAGCCTGCAGGACTGTGAGTCAATTAAAACTTTCTTCTTATACCATTTGATCCA
GCAATCTCATTACTGGGTATATACCCAAAGGATTATAAATCATTCTACTATAAAGACACATGCATACGTATGTTTATTG
CAACACTATTTACAATAGCAGAGACATGGAACCAACCTAAATGCCCATCAATGATAGACTGGATAAAGAAAATGTGGTA
CACATACACCATGGAATACTATGCAGCCATAAAAATGAATGAGATCATGTCCTTTGCAGGGACATGGATGAAGCTAGAA
GGCATAATCCTCACCAAACTAACACAGGAACAGAAAACCAAATATCGCATGTTCTCACTCATAAGTGGGAGTTGAACAA
TGAGAACACATGGACACAGAGAGCGGAAAAACACACATCCAGGCCTGTTGGGATGTGGGGGGTGAGGGGAGGGAACTTA
GAGGATAGGTCAATAGGTGCAGCAAACCACCATGGCACATGTGTACCTATGTAAGGAACCTGGACATTCTGCACATGTA
TCCCATTTTTAGAAGAAATCAAACAAACAAACAAAAAACTCATTTCCTTGTAAATTGCTCAGTCTCAGGTAGTTCTTT
ATAGTAATGTAAGAAAAGACTAACATCAAAGGTCACTATTCACAGTGCAGTACTGGAGTGAAATGTGTTAAGAAAAAGA
TTTCCTAAACTTGGAAATAGCCATATTGGAGAAATGTGCAACAGATCCATCATTGATGATTTAATTATTTAAGGCTGTT
AACTTTGATTTAACGCTATTGATTGGGATATTTACAACTCTATGCATAGATGGTGACTTATGAAAACTGAGAGTGGTGC
AAATAAATTCTTCCCAGTAGAAAAGAACACTCCAGGGGATATAGTTAATGCAAGACATTAACCAGTTTTATATCTCTTT
TAGCATTTTTTATTCAGTCATCTTTTTTCAATAACTATAAATACTTCTGCTTCTGCTGTATTCTTTTTTCTCACCTTTT
CTATTTTATTGGTTCCCATAATAATGAGTTAAATAAATCTTTGATACATGCTTACTTTATTTTATATGAGAGTCAGGTT
TTTAAAATTATACTTTGACAAATGAAAGTCCTCAGTGAACATGTACTACATCTTGAAAAAAGGGATGGCCTGGGGCTGA
TAATACTATAAAACAAGAGTTGACAGACTATGGCCCCATGGGTCAAATGCACTTGTAAGAACGTTTTATTGGAACATAG
ACACACTCATTGATTATGTCTTGTCTATGGGTTTTGTTCTGCTATAGCAGAATTGAGTAGTTGCAACTATGATCATATG
GCCCATAAGGCCTAAAATATTTATTATCTGGCCTTTTACAGAAAAATTTTGCTAAATTCTGTTATAGGAAATCCTGAAT
TTTAAGACTAATCATGAACATAATTTGTTAATCGTTCTCAGAAAATTGACAGCACTAATGATTTATAAGACATCAAACA
ATAGAATATTTAATTTGATTTACTAGAAAATTATGAATAATGCAGAATAATATATACTCTGAATTAAACTTATTGATCT
CAATTTGGAAAACAGAAAACAATGAAGAGATATAATCAAATCTAGAGCCAAAAGTGGCCAATAACTACCTAAATATTAC
CATATATTAAACATCAGATGGAATCAACTGTCAAGAATATAATTAAAAAGGTGGAAGGACTATGCTGTGAAAAAAATCT
ATCATCTTAACAACTTGAACTCATTTTTATTAAATGTATATACATTTAGTTTAAATGAAAATATAGTATTTGTGTTATA
TACTTTATTTCTCACTTTGACTTTTTAATTAAATATGTCTTGATTTCATCAGATAAGAAGGCATCTGGTGTATTAAGTT
TTGTTAATTGAAAAATCTCAACTTTTTTATTGCCCAGCAGGGTAGAGGCTTGCTCAGAAGCTTGGACTAGCAAACATAA
CTAGCTTTTTTTTTTTTTTTTTGTCTTTCCTTCTCTTTTCTCTCCTGCCACCTTAATGTAGGGTGAATGAATTTGCCAC
CTCAAAGCTATCTACAATGGGTCAGGCAAAATAACCACAATATGGGTTTGTACATAATTTGGGAAGGAGTTCTTCTCCT
GTCCCTTCTTCCTTTGGCAATGCCTCTTAAATCACAGTTGTGTTGGTTGAACAGCTCTATGAATATATGAAAAGCCACT
GAATTGTGCACTTAATTGGGTGAGTTGCATGGTATATGTAAAATACATCTTAATAAAGCTGACACCCCAAGAAAATCACAG
GAGAAAAAAAAATCGTACCGAGTTAATGGTATATAATGAAAAAGAAAAATTGATGTTCAGTGCCTACTGTGTACTAGAAA
CTTACAAATGGACAGATATATGAGTATCAAAATCAAAAGTGCACAGCAACCTAAAACAGCTCTGTCACCCAGGCTGTAG
TGCAATGGCCTGATCATGGCCTATTGCAGCCTTTGCCAAAGGAGCTCAAGGGCTCCTCCCACCCCAGCCTTCGGAGTAG
CTGGGACTACAGGCATGCACCACCATGCCTGGGCTAATTTTTTTTTTTTTTTTTTTGTAGAGATGGAGTTTTATCATGT
TGTCCAGGCTGGCCTTGCACTCCTTGACTCAAGCCATCTGCCCATCTCAGCCTCTCAATGTGCTGGGGTTAGAGGGATG
AGCCACCATGTCTAGCATAGAGTTGTATTTTCTAGGTTTAAAGTAATTAAATTATGGATCTGCAAGCCCAAATAATTTT
TATAAGTTATAATTTTTCTTATTAATTATAAAGTATTCCCAGGGACTCTGTGAAGTCCTGTTATGTCTGGGCTCACGTA
TGAGGCACACAAGGCAGGCAGTAATGAGACTGCTTTTAATCTGTAAATATATAAGTAAACATTCAAATTAATTCCATTA
TTTTAAAGAGTGAGATTAAGAAATGTTAAAATGCACTCATTTTAACAATGTTTCCATTGTGCAAAACATTTTTGGCATT
ATTTGTCTTTTTCAGGCAGGAAAACCAGTGTCAAAACTTTATAATCATGTCTTATTTCTGTGTGTATGTGTCCACATAA
AGTATTAATTAGCATCATTGCTTGTTTCCAAATGCCTTTTGTCTGTTTCAAAACTCAAATCTACCATTAAAGGAAAAAA
AAATTCACACAATTGAGAATATTCCAAAGAATGGGCCTAATGGGGATCACAGAACTGATTGGAAGACTGAGACTGAAGA
TCTAGGCTCAGAAATTTGGCATGAATCTTGGCAGTAGGTGACACAGTTCAGGTCACACCACAAAGCAATCTGGTGTAGC
ATGTCTCACTGGCATGGCCACCATTAGACTTTATCCTCACTAGCACCAATTGGCAATGGAGTGTTGTACCACTTCCTTT
AGATGCAGTCATCCCAGGTGGGAGTGTTCGTGCAAGCCAAGCTTATGTGCCATGCACCAGATGTCAGTGGATGGGGGTG
TGTGAATCTGTTAGGTAGCAGAGCACAGTTTGCCACCAAAATATACACAATGTAGCATTTCCCCACAATTGCCCATTAA
AAATCTTTTACATTAAGCATTACTGACATTATAGAAGTGTCTTTGGATTCTTTTATTAGTTAAGGTGAGCATATATTAC
GTTTGTAATTTTAAGTCGAGTACATAATAATTATAAAAGAGAGATTTTTATTCTTTCAAGTTTCAGGTACAGAGATAGT
CTCTTTGCTTCGATATAGGGTACACTAGAGAGGGTTGTACACCTCAGTTCATTGCTCCACACTCTCCCAGCAGGGAGCA
TAGAACCTTGACCTTTAGAACATTCCACTTAATGGTGCAATAACCTGTATGCAGTGTAAGCTGGTAGGAGAAATCAAGT
AAGAAGAGGAAAGAAATGGCCATAAAATGCCCACACATTTCCTCTTCGCCCCCACCCGCCCCTCCAATCATAAGTGATG

Fig. 6.14

CTCCATTGGGCACTCTTTACCTCAACTTAAGTTTCACCTTTTTCTGGTTTGGAAAGGGAAAACTACGTTTTTTTGTTTT
GAGACGGAGTCTTGCTCTGTCACCCAGGCTGGAGTGCACTGGTGCGATCTCGGCTCACTGCATCCTCCCTCCCAGGTTC
AAGTGATTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGATTACAGGTGCCCGCCACCACACCCGGTTAATTTTTGTATTT
TTAGTAGAGACGGGATTTCACCATGTTGGCCAGGATGGTCACGAACTCCTGACCTAAGGTGATCTGCCCTCCTTGGCCT
CCCAAAGTACTGGGATTACAGGCGTGAGCCACCGCGCCCATCCAAACTACATTTTTAAAAAAAGTTAAAAAGCAAAAAC
GAAACAAAAGTTGGGAAGGCAAGTGTTCTGTTCCATTTCATTAGGAGGCTGACTCTCTAGGAACCTCTCCTGGTCGCTG
GGACCATTGTTACAAGGTTGAGAACTGTGAGTGTACGGAAACCCAGGGGAAACATTTTTCCTCATTTACTTCTCAAAAT
AGAGGTAGGAATAAGGCATGGAAAAATATAAATGAGTAAATATAATCCTTGTTACCTTGGAATAATTGGTGATAAAGTG
CAGGTGCATCTTATTTTCATTCTATCAAGTCGTTTTCTAATTGGATGTTCTTGAAACAGTGGCTCATTGCTTGTACTTG
TTCACTCCTATTTTCTTGCTACTATCCTGTTTTGGGGGCAGGGCAACTCTACCCTGGGGAACGATCAAATGTTTAGGCA
AATATATCCTGGTGTTATAAGCTCATTAAATTTCTTGTCATTTCTTGCAGTGTGCTGGGAAGTGCTGTTTGTGGCCCGT
TTTTGCAATGTAGAACCTCTCTTTTGTGAGAGCCATGGAAGTTCCTTATTTGATAATTAGTCTCTTGCTTTAGGCAGTG
CCATTAAGAACTCCATATAAGCTGCCAACACTTTGTGGATGTGCAGAACCCCGTAAGCTTCCTATAGCTACTATTGCAA
GTAAAATTTTCAGATGCTTCTGAAGTCTTACCCACTTATCTTGGCGTAGAGGTTCTCAAGCTTCAGCACTGGAGGATCA
CCTGGAATTGCTCGTTAAGACACACATTGCTGGGATCCACCTCCAGGGTGTCAGAGTCAAGTCTGGGGTGAAGCCTGAG
AATGTGCATGTCTAACCAGTTCCCAGGTGATGCTGATGTTGCTGGTTTTGAGACTATATTTTGAGATTAAGAACTGCCT
TGGATTAAGAGCTGACCTGCGATCTACAGCTCAAATAGTGAAGTAAACATCCTAAAGAAAATGGAAAAACCAGTGCAGT
GAGTGATTGAATTACTATTTGTTCAATATCACAGAGAGCATAGTATTACATAAGGGCTTTGGGGAATATTTTAGGTAAG
TATATATAACTCTTGCCACCTAGGATGTTCATAGTAACTATAAGACAGTATTTTTGTTTTCCAAGTAATTTTAATGATC
CTGTAGATCCTCTTCCTTTTTGTATATAATATCAATCTAATAGTTTCTTGTTTAATATAAAAATGAAATCTTATTTTAC
ACAAGCAGCAAGCAGCTATTTTTTCAGATTTTCCCCCTATAATCTAAGGGAAAGTTATTTAAAATAGAAAAGATGTGG
GCTTCAAAAAAAGCTTTGCAAATATGTTGCAATAATACGAATGATTTCAGTGTTGAAATCCATTTGTGAAAGCAGGCTT
TGCTTATATTTTGGGTCCTGCCTTCTATAAAATGCTCAGATTTGCTTTTATTAAGATCATACACTCAGTGACCTGAGGA
CCAGATGGAGGTTATAAGCAGCTCTTTAAGGCTTCAGAGCTTAGCCTAGAGAGTCAAACAGCTCTTTGAACTGGCGTCT
CAGCTCTGTCATTTAGGCAAATTGTTTATTTTCTGCAAAGAACCAGCCTTAGGCTTTGTTGATCTACGTATGTATATTT
GTTTTTTATTTATTTGCATTATTTCATTCATTCTGTTTTCTTTGACTTTAATTTGCTAGTTTTCTTTGAAGCTTGTGAG
ATAAATGCTTAGATCATTGATTATCAAAATTGTGTCTATTCTAATATATATATAATATATATATGATAAGGCTATACAT
TTTCCCCTTAGCACAGCTTTAGTAGCCTCCAACAAATTTTGATGTGCTGTGTTTTTATTATAAATCAGTTTGAAATATA
TATTCTAATTTTATTATGATTTCTTGAGCCTATGGATTATATAGAAATATATTTCTTAAATTGTAAACATATGGGGATT
ATTTGATGTCTCTAAGCCGCAGATTTCCTATTTTATTTTATTTATTTATTTTTTATTATTATACTTTAAGTTTTAGGGT
ACATGTGCACAATGTGCAGGTTTGTTACATATGTATACATGTGCCATGATGGTGTGCTGCACCCATTAACTCGTCATTT
AGCATTAGGTATATCTCCTAATGCTATCCCTCCTCTCTCCCCCTACGCCACAACACTCCCTGGTGTGTGATGTTCCCCT
TCCTGTGTCCATGTGTTCTCATTGTTCAGTTCCCACCTATGAGTGAGAACATGCGGTGTTTGGTTTTTTGTCCTTGCAA
TAGTTTGCTGAGAATGATGGTTTCCAGCTTCATCCATGTCCCTACAAAGGACATGAACTCATCATTTTTTATGGCTGTA
TAGTATTCCATGGTGTATAGTATTCCATGGTGTATATGTGCCACATTTTCTTAATCCAGTCTATCACTTTTGGACATTT
GGCTTGGTTCGAAGTCTTTGCTATTGTGAATAGTGCTGCAATAAACATATGTGTGCATGTGTCTTTATAGCAGCATGAT
TTATAATCCTTTGGGTATATACCCAGTAATGGGATGGCTGGGTCAAATGGCATTTCTAGTTCTAGATCCTTAAGGAATC
GCCACACTGATTTCCACAATGGTTGAACTAGTTTACAGTCCCACCAACAGTGTGAAAGTGTTTCTATTTCTCCACATCC
TCTCCAGCACCTGTTGTTTCCTGACTTTTTAATGATTGCCATTCTAACTGGTGTGAGATGGTATCTCATTGTGGTTTTG
ATTTGCATTTCTCTGATGGCCAGTGATGGTGAGCATTTTTTCATGTGTTTTTTGGCTGCATAAATGTCTTCTTTTGAGA
AGTGTCTGTTCATGTCCTTCGCCCACTTTCTGATGGGGTTGTTTGTTTTTTTCTTGTAAATTTGTTTGAGTTCATTGTA
GATTGTGGATATTAGCCCTTTGTCAGATGAGTGGGTTGCAAAAATTTTCTCCCATTCAGTAGGTTGCCTGTTGACTCTG
ATGGTAGTTTCTTTTGCTGTGCAGAAGCTCTTTAATTAGATCTCATTTGTCTATTTTGGCTTTTGTTGCCATTGCTCTT
GGTGTTTTAGACATGACGTCCTTGCCCATGCCTATGTCCTGAATGGTATTGCCTAGGTTTTCTTCTAGGGCTTTTATGG
TTTTAGGTCTAGCATTTAAGTCTTTAATCCATCTTGAATTAATTTATGTGTAAGGTGTAAGGAAGGCATCCAGTTTCAG
CTTTCTACATATGGCTAGCCCGTTTTCCCAGCACCATTTATTAAATAGGGAATCCTTTCCCCATTTCTTGTTTTTCTCA
GGTTTGTCAAAGATCAGAAAGTTGTAGATATGCAGCATTATTTCTGAGGGCTCTGTTCTGTTCCATTGGTCTATATCTC
TGTTTTGGTACCAATACCATGCTATTTTGGTTACTGTAGCCTTGTAGTATAGTTTGAAGTCAGGTAGCATGATGCCTCC
AGCTTTGTTCTTTTGGCTTAGGATTGACTTGGTGATGCAGGCTCTTTTTTGGTTCCATATGAACTTTAAAGTAGTTTTT
TCCATTTCTGTGAGGAAAGTCATTGGTAGCTCGATGGGGATGGCATTGAATCTATAAATTACCTTCGGCAGTGTGGCCG
TTTTCACGATATCGATTCTTCCCACCCATGAGCATGGAATGTTCTTCCATTTGTTTGTATCCTCTTTTATTTCATTGAG
CAGTGGTTTGTAGTTCTCCTTGAAGAGGTCCTTCACATCCCTTGTCAGTTGAATTCCTAGGTATTTTATTCTCTTTGAA
GCAATTGTGAATGGGAGTTCACTGATGATTTGGCTCTCCGTTTGTTATTGGTGTATAAGAATGCCTGTGATTTTTGCAC
ATTGATTTTGTATCCTGAGACTTTTCTGAAGTTGTTTATGAGCTTAAGGAGATTTTGGTCTGAGACGATGGGGTTTTCT
AGATATACAATCATGTCATCTGCTAACAGGGACAATTTGACTTCCTCTTTTCCTAATTGAATGCCCTTTATTTCCTTCT
CCTGCCTGATTGCCATGGCTAGAACTTCCAACACTATGTTGAATAGGAGTGGTGAGAGAGGGCATCCCTCTGTCTTGTG
CCAGTTTTCAAAGGGAATGCTTCCAGTTTTTGTCCATTCGGTATGATATTGGCTGTGGGTTTGTCATACATAGCTCTTA
TTATTTTGAGATACGTCCCATCAATACCTAATTTATTGAGAGTTTTTAGCATGAAGGGTTGTTGAATTCTGTCAAAGGC
CTTTTCTGCATCTATTGAGATAATCATGTGGTTTTTGTCTTTGATTCTGTTTATATGCTGGATTACGTTTATTGATTTT
CATATGTTGAACCAGCCTTGCATCCCAGGGATGAAGCCCACTTGATCATGGTGGATAAGCTTTTTGATGTGCTGCTTGA

Fig. 6.15

TTCGGTTTGCCAGCATTTTATTGAGGATTTTTGCATCAGTGTTCATCAAGGATATTGGTGTAAAATTCTCTTTTTTTGT
TGTGTCTCTGCCAGGCTTTGGTATCAGGATGATGCTGGCCTCATAAAATGAGTTAGGGAGGATGCCCTCTTTTTCTATT
GATTGGAATATTTTCAGAAGGAATGGTACCAGCTCCTCCTTGTACCTCTGGTAGAATTCGGCTGTGAATGCGTCTGGTC
CTGGACTTTTTTTGGTTGGTAAGCTATTATTATTGCCTCAATATCAGAGTCTGTTTTTGGTCTTTTCAGAGATTCAACT
TCTTCCTGATTTAGTCTTGGGAGGGTGTATGTGTCCAGGAATTTATCCATTTTTTTCTAGATTTTCTAGTTTATTTGTG
TAGAGGTGTTTATAGTATTCTCTGATGGTAGTTTGTATTTATGTGGGATCGGTGGTGATATCCCCTTTGTCATTTTTTA
TTGCATCTATTTGATTCTTCTCTCTTTTCTTCTTTATTAGTCTTGCTAGCGGTCTATCAATTTGTTGATCTTTTCAAAA
AACCAGCCTCTGGATTCATTGATTTTTTGAAGGGTTTTTTGTGTCGCTATTTCCTTCAGTTCTGCTCTGATCTTAGTTA
TTTCTTGCCTTCTGCTAGCTTTTGAATGTGTTTGCTCTTGCTTCTCTAGTTCTTTTAATTGTGATGTTAGGGTGTCAAT
TTTAGATCTTTCCTGCTTTCTCTTGTGGGCATTTAGTGCTATAAATTTCCCTCTACACACTGCTTTGAATGTGTCACAG
AGATTCTGGTATGTTGTGTCTTTGTTCTTATTGGTTTCAAAGAACATCTTTATTTCTGCCTTCATTTGTTATGTACTC
AGTAGTCATTCAGGAGCAGGTTGTTCAGTTTCCATGTAGTTGAGCGGTTTTGGGTGAGTTTCTTAATCCTGAGTTCTAG
TTTGATTGCACTGCGGTCTGAGAGACAGTTTGTCATAATTTCTGTTCTTTTACATTTGCTGAGGAGAGCTTTACTTCCA
ACTATGTGGTCAATTTTGGAATAGGTGTGATGTGGTGCTGAGAAGAATGTATATTCTTTTGATTTGGGGTGGAGAGTTC
TGTAGATGTCTATTAGGTCTGCTTGGTGCAGAGCTGAGTTCACTTCCTGGGTATCCTTGTTAACTTTCTGTCTCATGGA
TCTGTCTAATGTTGACAGTGGGGTGTTAAAGTCTCCCATTATTATTGTGTGGGAGTCTTAGTCTGTTTGTAGGTCTCTA
AGGACTTGTTTTATGAATCTGGGTGCTCCTGTATTGGGTGCATATATATTTAGGATAGTTAGCTTTTCTTGTTGAATTG
ATCCCTTTACCATTATGTAATGGCCTTCTTTGTCTCTTTTGGTCTTTGTTGGTTTAAAGTCTGTTTTATCAGAGACTAG
GGTTGCAACCTGTGACTGTTTTTGTTTTCCATGTGCTTGGTAGATCTTCCTCCATCCCTTATTTTGAGCCTATGTGTGT
CTCTGCACATGAGATGGGTCTCCTGAATACAGCACACTGATGGGTCTTGACTCTTTTTCCAATTTGCCAGTCTGTGTCT
TTTAATTGGAGCACTTAGCCCATTTACATTTAAGGTTAATATTGTTATGTGTGAATTTGATCCTATCATTATGATGTCA
CCTGGTTATTTTGCTCGTTAGTTGATGCAGTTTCTTCCTAGCCTTGATGGTCTTTACAATTTGGCATGTTTTTGCAGTG
GCTGGTACCGGTTGTTCCTTTCCATGTTTAGTGCTTCCTTCAGGAGCTCTTTTAGGGCAGGACTGGTGGTGACAAAATC
TCTCAGCATTTGCTTATATGTAAAGTATTTTATTTCTCCTTCACTTATGAAGCTTAGTTTGGCTGGATATGAAATTCTG
GGTTGAAAATCCTTTTCTTTAAGAATGTTCAATATTGGCCCCCACTCTCTTCTGGGTTGTAGAGTTTCTGCAGAGATAT
CCGCTATTAGTCTGATGGGCTTCCCTTTGTGGGTAACCCGATGTTTGTCTCTGGCTACCCTTAACATTTTTTCCTTCAT
TTCAACTTTGGTGAATCTGACAACTATGTGTCTTGGAGTTGCTCTTCTCGAGGAGTATCTTTGTGGCATTCTCTGTATT
TCCTGAATTTGAATGTTGGCCTGCCTTGCTAGATTGGGGAAGTTCTCCTGGATAATATTCTGCAGAGTGCTTTCCAACT
TGGTTCCATTCTCCCCGTCACTTTCAGGTACACCAATGAGACGTAGATTTGGTCTTTTCACATAGTCTCATATTTCTTG
GAGGCTTTGTTCATTTCCTTTTACTCTTTTTTCTCTAAACTTCTCAATTCATTTCATTCATTTCATCTTCCATTACTGA
TACCCTTTCTTCCAGTTGATCGAATCGGCTACTGAAGCTTGTGGATGCATCACTTAGTTCTCGTGCCATGGTTTTCAGC
TCCATCAGTTCATTTAAGGACTTTTCTACACTGGTTATTCTAGTTAGCCATTCGTCTAATCTGTTTTCAAGGTTTTTAG
CTTCTTTGCGATGTGTTCGAACTTCCTTCTTTAGCTTGGAGAAGTTTGATCATGTGAAGCCTTCTTCTCTCAACTTGTC
AAAGTCAATCTCCATCCAGCTTTGTTCTATTGCTGGTGAGGAGCTGCATTCCTTTGCAGGGGGAGAGGTGCTGTGATTT
TTAGAATTTTCAGCTTTTCTGCTCTGTTTTTTCCCCATCTTTGTGGTTTTATTTACCTTTGGTCTTTGATGATGGTTAC
GTACAGATGGGGGTTTTGTTGTGGATGTCCTTTCTGTTTGTTAGTTTTCCTTTTAACAGTGAGGACCCTCAGCGGCAGG
TCTGTTGGAGTTTGCTGGAGGTCCACTCTGGACCCTGTTTGCCTGATATTACCAGCAGAGGCTGCAGAACAGCGAATAT
TGCTGAACAGCGAATATTCCTGAACAGCAAATATTGCTGTCTGGTAGTTCCTCTGGAAGCCTCATCTCAGGTGGGTACC
TGGCCATGTGAGGTGTCAGTCTGTCCCTACTTGGGGGTGCCTCCCAGTTAGGCTACTTGGGTGTCAGGGACCCACTTGA
GGATGCAGTCTGTCCGTTCTCAGATCTCAGACTCCTTGCTGGGAGAACCACTACTCTCTTCAAAGCTGTCAGACAGGGA
CATTTAAGTCTGCAGAGGTTTCTGCTGCCTTTTGTTTGGCTATGCCCTGCCCCCAGAGTTGGAGTCTATAGACGCAGGC
AGGCCTCCTTGAGCTGAGATGGGCTCCACCCAGTTCGAGCTTCCCAGCCACTTTGTTTACCTACTCAAGCCTCAGCAAT
GGTGGGGCGCCCCTCCCCCAACCTTGCTGCTGCCTTGCAGTTCGATCTCAGACTGCTGTGCTAGCAATGAGCGAGGCTC
CGTGGGCGTGGGACTCTCCGAGCCAGGCNCGGGATATAATCTCCTGATATGCCGTTTGCTAAGACCATTGGAAAAGTGC
AGTATTAGAGTCGGAGTGACCTGATTTTCCAGGTGCCGTCTGTCACAGCTTCGCTTGGCTAGGAAAGGGAATTCCCTGA
CCCCTTGTGCTTCGCAGGTGAGGCGATGCCTCACCCTGCTTCAGCTCACACTCGGTGCACTGCACCCACTGTCCTGCAC
CCTGCAGTGTAGCAAAGTTTGAAATGTAGATAGCCAGAAGTCAGTCTGGGGGAAAGCAATTCCAATTTTCAAGCTTGTA
AAATTGTTTTCATTGATTTCTACTCAAATTTGAAATTCTTTCCTGTCGTCAACATGTTTGATGATGCCTAATATGAGCT
ACAAATTCACTATACCATTTTTTTCTTTTTTGCTGGAACATGTATAAAATAGAATATATCTGAATTTCCATGTAGGGCT
GAAACATGCTGTCATAATAGAAACAATATGCCTACATCTCCGTCTCTCTTTCTGTGTGTGTGTGTATGTATGTGTGAAG
TCATATGTTTTATGCTTTCCTATATATCAGATTATGTTTTAGCATTTCAGAGGCACTGTGTCCTGCTAAAATCCTGTGT
TTCCAGATGAAATGGCAAACATTATTTCCAGCAATGTGATAAAACAACCAAAGAAAGTGTTCAAGTGACCCGATTCATA
AAATTCACCAATAAGTCAATATATGCAGTAAAATAGTTATTACAAGAGTAGCTAAGAGTAATTAATATGAGTAAGTCTG
TAGCTTAACACAGTAAAGTATCACTTTTAAATGCATTTGCATTTCTCATGGGTGAGGGTTAGCAAATTCTGACCTGGAA
ACCAAATCCAGCCTACTGTTTTATTTGTAAAAAATTACATTTGAACACAGTCCTACCCATTTATTAACTTACTGTTTAT
CACTGCTTTTGTTCTAGAAAAGCAGAGTTGAGTAGTTGAAAAAAAGACTGTGGCCAGGCACAATGTCTCATACCATAAT
CCCAGCACTTTGGGAGGCCAAGGTGGATCACTAACTGGTCACTAACTCTTGGGCTCAAGTGGGTGGATTACTTTAGCCC
AGGTGTTAGTGACCAGCCTGGGCCACATGGTGAAACCCTGTTTCTACAAAAAGTACAAAAATTAGCCGGGAGTGGTGGT
GTGAACCTGTAGTCCCAGCTACTGGGGAGGCTGAGGTGGGAGGATGACCTGAGCCTGGGAGGTCAAGTAAGGCTGCAGT
GAACTGAGATCATGCCACTGCACTCCAGCCTGAGTGACAAAGTGAGATCCTATCTCCAAAAAAAAAGAAAAAAAAAAAGA

Fig. 6.16

CTGTAATATAAGACCCCCAATGTCAAAAATATTTACTATCTGATCCTTTACAAAAGCGTTTGCTAACTCCTGTCCTTGT
GTATGCTTTGATTTCATATTAATTATATCTTATGTTATTTATGATACATATATGANATACACATATATATCTAATATGT
TATATATTTAAGAATTATTCACTATGCCACAAACTGTAGATACAAAAGAAGTATCTCTAGGGAAAGCCAAAAACAAACA
TGGAAAGAAAGAAGGCTAGCAGAAGCTTCAAAATATCAAAAACTCTCTTACTGTGTGGCAATATAAACTAAAAACTGAT
GCTCAAAATCATGAAGATAGGAAAAAGAATCAAGACAACCAAAAAATATGGTTAATAAAAATGAAGACAGAAGACATCA
AGATGTTTATGAGAACCAGGGTCCTTTCAAACAGGGGGTGAAAAAGGAGTGAGAAGATGTGCATGGCAGTGAAGAAGAA
CTTAATTTGCACACAGTCAACGGGGGGGTGGGCAGGAGGGCCAACACAGCTGCATTTCTACCACATTATTTATTTTGGT
AAGTACTGTCATCTTTTGTTATGAGCCATATTTCATTCAACAGTGTTTAATGACTTTTTTCCAAATCATTACTCCATAA
TATTTACTGAGAATCAAACAGAACTTACAATAGAAAAAAGAGATACTTCTTAATTAGATATTTTGGAAAAAAATCATTG
TCGTGTGACAAGACAACCAAAGAGTAGTCAGCTAAACCTATAGAAATGAAGTATTCTAAAAATGTGTCAGACAGCTAAT
TAACACAATATTTTATTTTTCTAAAGATCTTGCAGTGTTTGTCATCTTTATCACCTTTTAAAAGTTTGCATTTTATTGT
CACTTTTAAAATTTTTAAATAAATGTCCATTTTGTATCTATCATTCTGTGTCTTTATGTAATAGTATCTAATATTCTAT
ATCTGTATCAAATATTCTGTATGTACTTCATATTCATTTTATCTTATTTTATTTATTTATTTATTTATTTATTTATTTA
TTTATTTTAGACAGAGTCTTACTCTGTCTTCCAGGCTGGAGTGCAGTAGCACAATCTTGGCTCACCACAACCTCCACCT
CCCGGGTTCAAGCAATTACCCTGCCTCAGCCTCCTGAGTAGCTGGGGTTACAGGCACACGCTACCATGTCCAGGTAATT
TTTGTATTTTTAGTAGAGATGGGTTTTGCCATGTTGACCAGGCTGGTCTCAAACTCCTGACCTCAAGTGATCTGCCCCC
CTTGGCTTCCCAAAGTGCTGGAATTACAGATATGAGCCACCACATCCAGCCCCATTTTACCTTAATTTGTAAGAATATA
TAATTATATTTATAATTTTATTCATTTTATATTAATTTTTCTATTTCTTAAAGGCTAAATCTCTAGTTTCCTTTTTATT
TTTCAGGTAGAGGATTTTAATTCACTGAGTACCTGATCATTTTACATACCTAGTCAAATAAATATGAAATTTGAAGAAC
TAAGATTAAGTTTTAAAAATTCTTAAGTGCATACAATCCATTGAAGAAAACAAAAATTGCTTAAGCAGTTTTTAAAACC
TTGATAAGAGGTCATCAACATGATTTAAATGTGAAATTAGCTAATGTAAGTAGCAGTTAGAATGAGATTTAGCTTATAT
ATTTGGAGGTATAATGGAAAACTCTGGTGAGGACTCTTTTATTGCACACCAAGAGAAACATGAGAAAGAAAAATGAGTT
GCATTTTTCTGCATTTTTCCAGAAGTGAAATGCTTTGCAACATCCTCAGAAAGAAAGAGAATACATGAGTAATATGAAA
GAAAACTATATAAAGGATTTAATTATTTCCAAATTGCCTGGGTGTTTTTTTAGTGCCTGCTTTTTTTTTCAAGCAGGAA
TAACTGTAGAAACTTTTATTTATTTATTTTTAAAGGAATGGTTACTATTCTTAGGAAAAGTGGCAGTAAATATAGTTAA
TAACGGTAATTATAATTTTATAAACTCATTCAAAAGTCTTGATTTTAAAGGCGATAGTAAAAAAAATATATATCTATTT
ATCTTGTTCCCTGAAAAATGGTAGCACTCCTGACCACTGAGAGACTGTTCTCCTCGGCATAATTGATGGCCTTCAAAGC
CATCATACTTCAGTATTCAATGTCAAAGATTTATTTCCATTTGCAAAATTTGCTTAGAACTCACCTATATTTACCTTTC
CTCTTATGACTTATAAGATAATATTAACATCTACATAACAGAATCTCACTCACAGAATGTTTGAGCCACGAAGGTGCTC
TGAGACCCTCTGCCTCAACAGCCTCATTCATAGATGAGAGAAGCCCAGAGAGGTGAGGACGCCTTCCAAAGCTCTAGCA
CTTGTTTCTAGACATGGAACCAGGACAGCCCTTGGCATTTCCCACCACATTTTCCTGCTTATTATGTGGCATGAGCTTG
TCTTTAACACTGAATTAGAATTATTGCACATTACATTGCATTCATCAAGGCCTACCCTTCAGGCAGTCTGATGTAACAG
TCTATTATAAGACATCCGAGAAAAACCATCCACTATCCTTTCAGATGTTCTCAAAACAATTTGTATTAAGAGCTAATAA
AATGAAACAGAAAATGCCAGGTAAACTTTTTAAAATAAAGATTTTGTGATTCATTGGGTTTAATTATTGGTTTTATTTT
AGCATTACTTTGATACATTTCATGAAGTATACAGACAGAACTAAAGCCACATTTAAAAGGCAATTAATAAAACCCAGAC
ATTATGATATAATTTACATACATTTAGATATATTTAAAGTGTACAGTTCATTTATTTAGTATAACCACAGAGTTGTGCA
AACATCACCACCATCTAATTCTAGAACATGTTAGAACCCCAAAAGAAACTTCATATTCATTAGCATGTTGCATTCCTGG
CAGCTCCCTCTTGCCACCCTGTACCCTCAGTCCTAGGCAACCACTAAACAACTTTCTGTCCTCATAGACTTGTCTATTC
TAGACATTTCCTATAAATGGCATCATACGATATGTGGTATTTTGTGACTGGCTCTGGCTTCTTTCACTTAGTATAATGC
TTTCACATTTATCATGTAGCATTTGTAAGTGTCTTTCCCTTTTATAGCTGAGTAATATTCCATTGTATGTGTATTCCAC
ATCTTTATTTATCCATTCATCACTTGATGAATATTTGGATGGTTTTCACTTTTTGGCTACTATGAACAATGCTGCCATG
AACATTTGTGAACAAGTTTTAGTGTGGCATTATGTTTCCATTTCTTTTGGGTACATATCTAGAAATAGAATTACTGGGT
CATAGGGTGACTCTATGTTTAATATTTTGAGGAATTCCCAGACTGTTTGCAAAGTGACTGCATCATCTTACAATCTCAC
CAGTAAGTATGGCATGAGGATTCCAATTTCTTCACAGCCTTGTAAAAAGGAAAATTTTACAATTATAATTATTTGGCAA
AAATTCAATGAATTTTTTGAGCATCTATTTTGTGAAAGGTCTTTTTTGAGGTGCTATAATTTTTTAACACTATCAATTT
TTGTGGAAAAAATTAGAACTTTTCTAAAGGACATTATTTTTAAAGTTTATTACTTATTATTTATTAATTTTTATTAATA
CATAATATTGCTATGTATCAGGTACATGTGATAGTTTGATACATGCATACAGTATATAATGATCAAATCAGCATATTTA
GAAAATCCATTACCTCAAGCATTTATTTCTTTGTGTTTGGAACATTTCAGAACTTCTCTTTCAGCTATTTTGAAATATG
CAATATATTTTTTGTTAACTATAGACACTCTATTGTGCTATTAAACACTAGAACTTATTTCTTCCACATAACTGTATGT
TTGTACCCATTAACCAATCTGTCCTCATCCCCCCAGCCCTTTCCCAGCCTCTGGTATCTATCATTCTATTCCCTACCTC
CATGAGGTCAACTTTTTAGCTCCCACATATGAGTGGGAACATGTGATACTTGTTTTTCTGTGCCTGGTTTATTTCACTA
AACATAATGACTTGCAATTCCATCCCTGTTGCCGCATATGATGAGATTTCATTTTTAATGGCTGAATAGTATTTTGTTG
TGTATATATACCATATTTTCTTTATTCATTCATCTGTTGATGGACACTTAGGTTGATTTCATACCTTGGCTGTTGTGAA
TAGAGCAGCAATAAATATGGGGGTACAGTTGTCCCTTTGATTTATTGATTTCCTTTCCTTTGGACAGAGAGACAGTAGT
GGGATTGCTGGGTCAGATGGTAGTTCTATTTTTAGTTTTTAAAGACACTTTCATACTGTTTTCCATAGTCGTTGTACTA
ATCTACATTCCCAACAATGCATAAAGAGTTCCCTTTTCTCCACATAATCACCAGCATGTGTTATTTTTTGACTTTGATA
ATAACCATTCTAACTGGGGTGAGATGGTATCTCATTGTGGTTTTGATCTGTATTTTCCTGATGATCCGTGATGTTGAGC
AGTTTTTCCTAAACCTGTTAGCCATTTGTCTTTTTAGAAATGTCTATTCATGTCCTTTGCTCACTTTTTAGTGAGATTA
TTTGATTCTTTGCTGTCGAATTGTTTTGAGTTCTATGTATATTCTGGATATTAGTCCCTTGTTGGATGAATAGTTAGCA
ATTTTTTCTCCATTGTTCATGTTATCTCTTCACTCTGTTGATTGTTTCCTTTCCTGCGCAGAAGCTTTTTAGTTTAATG

Fig. 6.17

TCGTTCCATTTGTCTATTTTTGTTTTGGTTGCCCCTGCTTTTGAGATCTTAGCCATAAAATCTTTGCCTAGATCAATAT
CTTGAAGCATTTCCTCTATGTTTTCTTTTAGTAGTTTTATAGTTTCAGGTCTTGTATTTAA CTTTAATCCATTTTGA
ATTGATTTTTATACATTGTGAGAGATAGAGGTCTAGTTTCATTCTTCTGCATGTGAATATCCAGTTTTCTTAGCACAAT
TTATTGAAAAGAATGTCCTTTCCTCAGTGTATGTTCCTGGCAACTTTGTCAAAAATTGGCTGGCTGTAAATATGTGAAT
TTATTTCTGGATTCTCTGTTCTGTTCCACTGGTCTGTGTATCTGTTTTTATACCAATAGCATAGTGTTTTGGTTGCTAT
AGCTTTGTAGTATATTCTGAAATGTGTTAGTGTGATTGCCTTCAGCTTTGTTCTTTTTGCTGAGTATTGCTGCTATTTG
GGCTCTTCTATGGTTCTATGTGAATTCTAGGATTGTTTTTTCTATTGATTCAAAGAATGTCATTAGTATCTTGATAGGA
ATTGCATTAAATCTATAGCTTACCTTGGGTAGTATAGTCATTTTTAACAATATTAATTGTTCCAATTCATGAGCATAAT
ATGTCTTTCTATTTTTGGTATCCTCTTCAATTTTGTTCATCAGGGTGTAGTGTTTTTTGTTTTGTTTTGTTTTGGCTTT
CATAGAAATCTTTCACCTCCTTGGCTAAATTTATCCCTGAGACTTTTTTGAAGTTATAAATGAGGTTGCTTTCTTGGTT
TCTTTTTCAGATAGTTGGTTATTGGTGTATAAAAACACAACCGATTTTTTATATTGATTTTGTGTCTTGTAACATTACT
GAATTTGTAAAATCATGTCATCTGAAGTAGAGACAATTTGGCTTCTTCCTTTTTTTTTTTTTTGAATTGGAATCTCTCT
CTGTCATCCAGGCTGGAGTGCTCTGGTGTGATCTTGACTCACTGCATCCTCTATTTCCCAGGCTCAAGTGATCCTCCCA
CCTCAGCCTCCTGAGTAGTTGGGACTACAGGTGTGTGCCACCACACCTGGCTAATTTTTGTATTTTTCATAGAGACAGG
GTTTCATCATGTTGTCTAGTCTGGATTTGAACTCCTGGGTTCAAGCAATCTGCCCACCTCAGCCTCCCGAAGTGCTGGG
ATTACAGGCTTGAGCCACCACAACTGGCTGGCATCCTGTTTTCCAGTTTGGATGCCTTTCATTTCTTTCTCTTTCCGGA
AAGAGAAAGTCTGGCTAGGACTTCCAGTATAATGCCGAATAAGAGTGCTTAGAGTAGGTGTCCTTGTCTTATTCTAGTT
CTTAGAGGAAAGGCTTTCAGTTATTCCCCATTCAGTATGATGTTAGCTGTGGGCTCGTCATATATGGCCTTTATTATGT
CAAGGTATGTTCCTGCTATACCTAATTTGTTGAGAGTGTTCATCATGAAGGGCAGGGTGAAAGGGATTCTTTTCTGAAG
GAGGTTGTGTCACTCAGTGTCTGATGAGGATATAGAAGTCAGTGTTTGGTGAGAGATAGTAATTTGAAGAGGGAACATT
TACTATAAAGAATTATTAACTGGCAAAATGTGATAAACTACAAAAGGGGTAAATTGTATGCTAAATAACACAGAAATAG
CAAACATAGGGAAGAGCTGCTACTTCTAGGACTGAGGGAGGATACCCAAGAAAAGAACAAACATGGAAGGGTCTTTCAC
ACCTNAAGGCTGAGATTCAGACCTTGTTGGAGAGGGTGGTGCTGTGGCCCGCAGGATAGAAAAGTTCTTTGAGGTGCCA
CAGGCCAGGCCTGGTGAGTAGGGTACTGGCTGTTGGGTGCCAGTGGATCAGCACTGTGGTCAAAAAAGTGCCTTCTAGG
GTGCTGGAAAAACCCACTGGAAGGTGGTCACCATTGGGTCTCCTGCATACTGCTGGCAAGGAAATTGCCTGCTCGGGTG
ACAATAAAACTCAGTAGGAAGCCCTCACTAGGTGCTGGTGGAACTCACTGTAGGGTGACTCTCCCATACACCACTGGTG
GCGGCCACAGGTAACAAGAACCAGGAAGAATCAAGAAGGAATGCTCCTTTATTTGCTATACCTTGTTTTATTTTATTTT
ATTTATTTATTTTTTTGAGACAGAGTTTTGCCTTTTTTCCCTGGCTGGAGTGCAATGATGCGATCTTGGCTCACTGCAA
CCTCCACCTCCCAGGTTCAAGTGATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGATTACAGGTGCGTGCTAATTTTGT
ATTTTCAGTAGAGATGGGGTTTTACCATGTTGTCCAGGCTGGTCTCAAACTCCTGGCCTCAGGTGATCCTCCTGCCTCT
GCCTCCCAAAGGGCTGTGATTACAGGCATGAGACACCGCATCTGACCCCTTTACTATACCTTGTAGTGTCTCCCCTACA
CTCTACCAGCAACAGATGACATTGCACTGGCTGACCGAGGAGCCAGATTAGTATCGTGGAACAGGGCAAAGAAGGGTGG
ATTTGGAGCGGAGAGGCAATATATTGATAACTGTCTTGGTGAACTCCTTTGGCTTCTTAGCTTCCACATGCACCATTTT
ATATATATATTTGAACTCTGTATAACACAAAGTCAACTCTGTTCTTCAGAGAAATGCAGAGTTCTCACCCCTTTCCCCA
AATGAGGAGACACACAGTTCCAACAGTTATCGTAGTCTCATCTGGCTGTCTTAAATACTCCTCAAATCAAAGTCCCACT
GAATATTCTCTTACCTAAAGGCTAAATTGTAGAGTTTATATTCAACAACTTTCATAAAATAATGAAGAGAGAAAAAGGA
AAATGGTTAATATATACAAATACACACATATACATCACATGCAAAGAGGAAATACACAAAACTGTCAGAATTCTCAGTT
TTGTAATTGATTGAGAGGCCATAGTTGGTATCTATGGCTTCCTTCTTCTACTGCCTATTCTGTATTTCCATTGCCCTTA
AATGGTCAAGGTTCTTTATCTGGGGAGTGATCCAAACTTTCATTTCTCAACAGCCTGAATCCTCAATAATCCTGCCCCC
TCCTTTTGACTCCTGCGGTTTCCCATTAACCTTTATTTCACACCTTGAGTCCAGGTTCCAGGGAGTTAGCTAATATTGG
AGATGACGCATCTGGTCGTAGGCAGGTGTCTGGTGAGATGGCTGTTTTTCCCTTTGGTCCTGGTCCTTGGACCTCATAC
ATTGCTGTTGAGCCATTGCTTGTTTCTGTCTACATGGCATATTTACCTCAGGAGGCTCTTTCCACTATCTTCATGTGAT
ACTTGAGGGAGCTGCATCATCACAGTTTCTTGCTTCTCCAAAACGCTGGGGTGGAGGGGGAAGGGCAGTGGGGTGGGGG
AAGAGGGATCCAGAATCCCTGCACGGACTCCTCTGGCTGGATGCCAGATGCAGCCACTCTCTTCCCCATCTCTGTGCTC
CTTTTCTGGGTGGTGGTAGGGTGAGGTGGGAAATTACTTTCTTGTTGGTCTTGGATACTTTGCAAAGACATCAGTACAT
TTTGTTAGCTTTAAAGGTTTAGTTCTTAGCACTTTGCCATCCTGGGAAATCAATGCCAGCAAATCCCATAGAACTTGTC
TGCTTTTTGCTTCAATTTACCCGTCCCTGAAGACAATAAACAAAGAGATGGCATTCTGCTTATAAAAGGGTAGTATAGT
AAAAAATGAAGAAAATATATCTCACAACTCATTTCCCATCTTTTAATAAATAGTGATAGACTTAAAATAGCTAAGATTG
AAAATGATGCCTATTTGAAAATTTACTAAGTAATTACATTCTAGCAGTTATACATGAGATATTTATTATATATCACATG
TACTATAAATCTAATTATCTGTGGTATAAATAGACATTCCTAATCACTTCCTTTTAAGCATTTTCTCTTGAACTTTCGA
CATTTGAATTGGATTCAGAACACGGAACAAGCACAACTCTTAAAAGTGTCAGACATGCTAGATTTCTTTCTCGCTCCCA
TGGAAAAAGTAAACACAGCATAAAACACTCATCAATTTTTAGAAGTTAAGAATGTGCTTTATGTAGTTTATCCTAGAAA
AATCCTCAAGTTATATAAACTTTTAGATTATGAATGAGTTATGGTCATTTGGAGATGGCAACAGAGCAACTGGCAGGTT
CAAGAATTTATACACAAAGGTGAAAGGCTTTTTGAAACAATCAGAGTTTTCTTTCAAGTCTAACTTCCTGAGTAATTTA
TCTGAGAAATTGTGAGATGACATGCAGGAGGACTTTCAAAATCATCCCAGTGTCCCTCAATCAATCTGGTTCAAATATG
CAGAATTGGAGGACAGGTCAAGAAAGCAGACGCTGAAACAGGAGGAAATGAAGTCGGCTTATTGTGAACATGACTTTTT
CCCATCTAAAAAAAGATGATAGTTTACATTGTTTTGAGAATTGTGGAGTGGGAGAAGCAGACCAACCTTTCATACTGCT
GAAATATAATTTTCCTGGCCACACATCTTCCTCATTAATTGTCTCCAATTCCTTACAAAAGAAAAAAAAACCTTCCTA
CATTTTTTTCTATTATAAAATAATTTCATAGTTGTATTTACCAAATGTTTAAGCATGAATGTGGTAACTGGTGAAAACA
GCTTAATCTGTGGTGGCATGAAATGATGAAAAAATAAATATATTTCTCTTTTTTTTTTCTGTTTTTATTCTCCATCCA

Fig. 6.18

CATCAACTGAAGGGTAGCTAGATGGTTTTGTGCAGAAGTCTGAGTGTCCCTTGTGCCAGGAGATGCTTTTGTTACCTAG
ATCTGTGCTTCTGGAGCTACTTCACTGGATTGATGTTTAGGGAGGACTAGAAAGTTGAAGGGGAGAAGTTGAATCATGG
AGGATGTTGGAGTGCTAAGATCCCTGAATGTGGTACCTGTAGATAAATACAGTGACTTTGAGACGCAGAGCAAAGACTC
CAGTGGAGTCTGTTATTCAGTGAGCAACAGCGTCACCCACCATGGAATAAATCAGGTTGGGGTGGACAATGTATTTCAA
GGTTCTGTGATTAAAGATTGTGGGACACACCAGCGGCCCTTCCATAAATAGATTTCACAAGCCTCAGCCTTCTTATGTT
GGTGGGTGGGGTAGATGGTGGCCAGAGAATGACTGAGATTGGGTTTTCTGTCAACTCGAATGGGAGAGGCTCCTTCAGT
TGGAATTAGATATGTAAAGGTAAAGAAATGTGTTATTTCATGTACCTGTGGATTGTGAAACAAATTCATGCTCACTAC
ATTTGTTTCAAAAGCATAAATAGGCCCTGCCTTCTGCCTTTATCTACTCTACACGTATAGTATGGAACAGTATGATTAA
GCCAGTATGATTTGAGCCAGAAGATTAAGTTCCATAAAAAGTGAAGAAAAGTCAACAATTTAACACAAGAAATGTTTAC
CGACTAACTATTCTATGCCAGGTCTGGGAGTATGAGGAAATAAATGTGACATATCCCTTGAGAAAGCAGAAATAATCCA
AAGAATTCATACATATACAAATTATTAATTACATCAGTAAAAATCTTTATGATGGGTGTGGCCAGGTCTGGGGCTGGAA
GGCCCACCTCAGCATTGCAAAAGAATTAGTCTTCAGTCCTGAAGCTCACAGAATTTGCTAACCTATTACTTAGGGGGAA
TATACCCCTGAATATCATTACTTGAAGAAAAAATACACATTTCCTTTGGAAGAAAGTAAAATCAGAAATCTTGAGGGTT
CTCTCGAAGAAAATCAGACCTGTAGTTCTAACCAGTCAACTGACCTTAGTTGAGAATGTTAATGTGCCAGAGAAACAAA
TGAATGCTCACCTTTCCGAGGAAGACAGTAGAAAATAACCCGCTTGACTATCTTCAGCTGGAAAAAAGAACTCTTTTTT
TTTTTTTTTCTGTGACGGAGTTTCACTCTTGTTGCCCAGCCTGGAGTGCAATGGCACAATCTCAGCTCACTGCAACCTC
TGCCTCCCGGGTTCAGGCAATTCTCCTGCCTCAGCCTCCCGAGTGGCTGGGATTACAGGCGTGCACCACCACGCCCGGC
TAATTTTTGCATTTTTCAGTAGAGACAGGCTTTCACCATGTTAGTCAGGCTGGTCTCGAACTCCTGACCTCAGATGATC
CACCCACCGCAGCCTCCCAAAATGCTGGGATTACAGGCGTGAGCCACCGTGCCCATTCGAAAAAAGAACTCTTTAATCC
ACTATACCTAACCTTTTACTCTCTCCTTTAGATTTAAATGATTAACTTCTGATAATGCTGCAGACATTTTTTTTTCTGA
AAGATTTGTTAATGAATGGATTCCTTTTGAAAGAAGTCCAGGCAAGAGCACAGAAAAACAGAGAGTTCCAATGATGACC
AACTGTGAAACATACTATGCTATATAAGAATCCTCTAGAGATGTAACTGTAACACCAAGATCAAAGCACAGGGGACTGT
ATCAATGCATTTCCCTGCAGAAGATAGGACTCTATAAAGTGAAGGGCAAGTAGCATGTGGAAGAGGAAGGACACTGGGA
AGAGCCCTAACTGCTGACGGGAGAGCCTAGTCCAGCTCTGGTCCTTCACTGGTCACTGTGAGATCTTAGGCAAATCACT
TGCTTTTCTGGGCCTTCATTTTCTCATCTGGAACTGAGGTAATCGAATTAGACCCTTCTTTAAGTCCTAAGATTCCAAA
ATCTCCAATGCAGGCACATATTAATATTGTACCAGGTAGCCTTTGTCCTACATTGAATTGTAGGTATAGTTTGTGCATA
TTTGTCTCCCATCCAAAAGTCTGCAGATTCACTAAGGAAGTCAGTTAAGGGCCAATCGGGGGATTTGAAGGATTCAGAG
CTACAGGAGCTATTCTTTATTCCTGGGTAACTCTAAGCCAGAAGATGGAGAAGCTCACCTAAAAGCTCTGCCATCAGGT
GTGTGGGTGGTGTTGTACTATGGTGTGGAGAGAGGAGAATGTCTCAGGAGACCAGGTAAGGGTTCCTATGATTGCAGAA
CCAACCAAAGAGCCTTGGAGGCACCAATGATGATGATTTTCTCTAGTTCTTCAAAAGCCAGGAACTGGGCCATATTGTT
TTCTTTGAAAGAAAAGAAAAATAAGTGAAAATGCTTCACAGAATATTTTATAGCAACACACTTCTCTGGATTAATTAAT
AGTTTTAGAAGATGGAGGTAAAGAGCTCATCTGTATAAAGGTCTGAAGATGCACATATCATCTTGGAAAAAAAGAGGCT
GTTATTCCATCATTTCCACATACACGGTTTTGTTACAAATATAATTGAAAATTCAAGTCTTTCAAAAATAGAATACATG
GGTACTGGAGATTAGGTCACACATAATCAAATTCTAAATTTCTTTTCCAGCAAAGTCGTCCCTACTGAGGTCAGAGTAC
AAAGAAGAGGGGATGGTAGGCTAAACGCCAAATGAATGAAAAGGGAAGATTTTTCAGGCAGGGAGTCATTAGTCTTGTC
ACATGCTGCTGATATGAAAGGACTGACCACTGGATTGAGCAACATGAAGGCATGTGACCTCAATACAAGCTTTTTCTGT
GGTTGGAATGAGATAAAAGAGAACAGGGAGAGAAGTGGAGTCACCAAGTGAGGACAACTCTTTGAAGGAGGTTTGTGGA
CCATTTGTTGTTATACAGAGGGAAATGCACAGGGGATTTTATGATGAGGGAACAGCTCTGTTTAAGAACTGGGTGTAAT
TGCTTTTGAGTCCACAGAGAGTCAAGGTTCTCTGTGATTTAATTATTCAGGAAAGAGGCTTCCTAGAAAGTTTACACTT
TCTTCAAAGAAAGTCAGTTTCTCTCATTTGCATGTCTCTCATTTCTAAGTGACTTAATGAAAATTCCTTTCCCCACTAA
CTTGAGTTTTATATACCTTGTATGGAGTAGACATAAGAAGTGCTGGTTGGCCTGNTTTGGTGCAGGACAGGATCCCACA
AAAAGAAATTTCAGCCTTNTAACCTTTCTTCCTTTGACTTTCTGTGATTAGTTTCCTTAGTGTCTGGTAACAGCTCTGG
TTCCTTTGCTGTAGTGTGGTGAGCCTCATCTCTTCAAACAAATTGGTTCACAGGCTGGGGATGGTGGGCGGGAGGGAT
GAAATCATTGTTTTGCTTCAATGTCGGTTCTCCCCTGAGAGGTCTTTCACAGCAAGGGAGTCTGTATTTTTAGAATTAG
CATGTTCTGTTTCAATGTTGTGAACATTCATTTTAAACCTACTATATTTAGCAGAGGTTTAATTACCCAAATTGGAAA
CTAGTTTTAAACCGTCACCTTCTACTTGGTTAATCAAAACAGTCCCTACCACCAGCAGGGGAGACTGGCAATTTCAGTC
ATACAGCCACACCTGGTGAGGGCAACTGACAAAAGCAATTCCATTGCCTGAGTTCAGCATCTTCAGCACCCATCCAGCC
CTGTTGTAGCCCCTCTTTCTTTCAGTAAGACTTTCCTGCAATATACCCTCTGTGGACTAGGGCTGGGGGATGTGTCTG
CTCTGATGTCTGTGGGGAGTGTCTTTTCTTCCCACACAAAAATCGTGATTATATTTTCCAAAATAGCACTCAGGAAACA
ATCTCTCTGTGGCATTTACAGATATGTGAGATGTTGAGGAACTGCGGTCTGAATGATGAAATTTCTTGGATTTTTCAGC
AATGTCATTTTTTTCCTTCATTTACTCACTCACTTCTGGAAGGGCCAGTCTGAGAGCTGGGCTGAGGAGTCCAAGGCTGA
TGCAGTCATGGATGAGTCTGAGGCAGGGAGACCACTAGCAGGAGAATGGGCAGTGCCAACTGGCTTTAAAAATACTCAG
ATACAAATATGAATTTTGCACATCCATTTAGTCATTTGGCAAATATTTATTGATTGGTTGTGGGATAAGCCATAGAGCC
TGACACTAGTTTAGTGAGAGAGATACACAGGAATAGGAAAAAAATTATCATAATAAATGCACAGCTACAGAGCGAGAGC
TCTGAAGGATCATTTTATGAGTATGCGTAACAGGAACCTGATGTGATTGATCAGTGAAGCAAATTGGTGCTTGAACTGA
GATCCACAGTGGTGCTTCCCAAATTTTATGTGCATATGAATATCTGGGGATCTTGTTAAATGCAGATTCCTGTGCTGCT
TCTGGGGCTTGGGGAGGAGCCTAAAATTCTGCATCTCTAATAAGCTGCCATGTGATGCTGATGCTGCTGGTACCAAAGA
TTCTAAAGGACAAACATAACGGAAAGCAGGGGTTGGGGGAAATAAGTTTCACAGGGAGGGAACAGTTATACACAGCAAG
AACATAGTCTGCATGGTGCTCTTCTGGTCCCTAACCACTGAAGCAAAGGTCAAGTAATTGTTCTACCTTCTTCCATGAC
TAATTGGCAGGATATATGTTCCCCTGATAGGACATTTCCCAACTTTAAGGCTGCTCTTTATGTTTACTTCAAAATTCCT

Fig. 6.19

TTTACCTCTTGTAAATATTGGGATTTCCATTTAAAAGGTCAGACAAAAGATATGTCTTCTACCCTTCTCCTTAGAATTT
GCCAGAAAACAGGGACAGAAATATGAATTTCATATTTGATAAACCTTGAAGACTAACTCCCAAAAGATAATATTTGGAG
AGGCTCTCAATGCAGTGAAGATCAAATATGGGTGCACAAAGGCTCCTGGAGGGAGTGCTTGGGAACACAGGTCTCAGAT
AAAGCTGGCAGGAAACTGTTTTCTTAAGTAGATGGCACTTTGAGGGCAAAACCAACCACCCCTTCTTCGGAATCACAGG
AAAGGCAGGTACATGGAGGGTAGGGTTGGAGCATCCCTTTACCGCATTTGACCTCACAGGAAAGTGGAGCAAGCAGAAC
TGCAGAAAATGTGCAGAAATGCTGCAATCAGTCTGTGTCCTAGTGAGGCAGGGTGGAGGAGAGAGGCTGAATTGCCTCC
TGCTCTGTAGCTGCCAATGCCTGTTGGCTGGAGAGAGGTAAAAATTCAAACAACCCGCACATATAGTCTTGTCATCATG
AGTTTGTCCCTGAACCAGGGAGAATTCTTGCTAGCCTGGAACTGCTCATCCCCTTCTCAACAAGACCCTGGATCACTTC
CAACATCAGGAAGAACACACTTCATTTAAAGATGAGTAACAAAAAGGCAACTAGCACAGGATCTATACAAATAANTTAC
AAGACAAAAGGAGGAAGAGGACAGGGGAACATAAAGAATCCTCACCAATAACAAGTTGCCATTAAGTAGAAAATTATGA
CAAAATAAATGTCTATGAACAATGAATTTAATGAAACAATGAAGAGGCTGGAAGCAGAGCAATTGAGAGATCAGGGGAA
ATACTAGCACCACCACAGGAGGAAATGAAACAAGAACTTCTGAAGGTCAGGAAGGAAGCAGAAGAGAAAAATAAAGCTA
CCATGGAAATGCAAGCATACTGTAATAAACACTAAGAAGAAACACTGCTGACATCACAGTGAGGAATAGGAGGGCAACA
TTAAGACACATAAACAAAAGATATAAGCAAAATAACCAGAAATGAACAAAGTTAGAGTGAACTAGAGAGAACATGAAAG
ATACAGAAAACAAAAGAATTGCAACATATGCATTATTTGTATCTTTTAAGAAGAAGTCTGGAGATATTACTCAGTAAAA
CTCTTTAGAAATAAAATAAGACTTGAATCTACAAATGGAAAGGGCATACTGTAGCTCAGAAAAAATTGATACAGAATGA
TCAACATTGAGAGGTATCCAAGTAAACATACTGGCCCTCAAGGCCAATGAAAAATTTTAGAATCCAGGCAAAAATAAAA
AATAAGAGTGAAAAATTAAGTTGGCATGATAACAAAATAGACTATGTAGTGGAATATCAAAAGTAAGAGAAAGGAATCC
TAACATAAATGAGAGTACAACATTTCAACATATTACCATAAAAAGTTTAAATTGTCTAATTCACCTATTGACTCAAATT
TACAAAAAAGGGAAATCAAATTATTTGTAATATGTGAGATGCATCTAAAACAACGAAACTCAGAAAGGATAATAAAGAT
AAAAATTAGGCAAAGACATGCAAAGCAAATGCAAAAAAAAAAAAGAGCAGCTGTCATAACTATGGTTGCATTCAAAACA
AAAAACATGAAATAAGACAAAAGGGGAACTTGATAATAATAAAGGATGTAACTCACAATGCAGTTCAATATGATAAATA
AATTGGCATGGAAAACATGGTGTCAAAGCTACAGAAAATAGGAATAGGCAGAAATCCTTTAGCAGTAGAAAACTTTAAC
GCTTATCTTTTAACTATGGAGAAATCATATGGAAAAAAAGCAAGGATAGTTTTAATAGCTTTACAACAAACTATATACT
ATGAAGACAGATTACACTTTCCTTTCAAGTATTAATGGAGCAGTTACAAAAATTAACTACATATGAAGCCACAAAGAAA
ACTGCAATGCAGTCGATCACATAGAAATAGTACAGACATTATGTCATGCCAACGCAAAACTTCAAATGTTAAAGAGAGA
AAAAAAAATAACTTTACCTCCTGGAAATTAAAGAACACTCTCTATATAATTTTTCAGTCTCATAGAGAAAGTCATCGCT
AAAAATGCAGAATATTTGGAAAGCAACACGAATTAAAACACTATATTAGAGACTATGAGATCTTGTTACAGCAGTACTT
AGAGGAAAGTTCATAACTTTAAATACTTGTAACAAATAAGAATTAAATGAATTAAGCATCCAATATCAGAATGTATTAA
GTAAAATAAAGACAAGGCAGAATAGAAATTAGTAAAGATAAAAACAGAAATTAATTAATTTGGAAAATTTAAAAAATGC
CAAAATAAAGTCTATGAGTTGTGTTTGAAAAATTTTTAAGTAAAAATGTGTGCTATGCTCTTTTTTTGAAATGATAACT
TTTTAATTGTGGTTAAAAATATAAACCTAAATTTGCTATTTTAGCTATTTAAAAATATACAAATCAATGGCATTAATTA
TATGCAAATGTTGTACAATCATCACCAGTACTGATTTCTGAACTTTTTCATCACCCCAGCAACTCTGTGTCCTCTAAGC
AGTAACTCCCCATTCTCCCTACCCCCTAGCCCCTGGTAACCTTCAGTCTACATTTTGTGTCTATGAAGCCTATTCTAGA
TGTTTCATATAAGTGGAATAATATAATATTTGTCATTTTTTGTTTGGCTTATTTCACTTAGCATGTATCAGAACTTCAT
TCCTTTTTATGTATGAATAATATTCTGTTGTACATAACATACCACATTCTGTTTATACAATTGATTTTGTTATGTGCTC
TTGGATGGTTCTACCTTTTAGCTATTGTGAATAATGGTGCAACACCCATCTTTTTTTTAAAGGGAAAAAGCAGAAATAG
ATGATATAAGAAAACAAGAATTGAGAAATAATTATAGATAGAGAAAATTAAAGGAGATTATAGGACTTATATGTACCAT
AAGCAAATAAATGTAAAAACCTGGATAAAATATGTAATTTCTAGAAACGATAAAGTTCTAAGGCTGGCCCCAGAAGAGT
TCGAAAATCTAAAGAGACCAATTACAATAGAAAAAACAGGAAAGTCAGGCTATCCGTCTTCCAAACTACCAGGCACAGA
TATTTTTACAGGTGAGCTCTTCATAACCTTAATGACTCAATCACTCTAAAGCTTTTAAAATTCTTCTAGAAGAAAAGAC
TCTAGTTACTTTTTATAAAGTGGAGGTTACACTGGTGTCAGTATGCCACAGAACAACAAAAATAATAAAAAGAAAGTCT
AATGTCTCTTGTGACTATCAATACAAACATCTTCAATAGAATACTAGCAAACATATTCCAGGAGGACAGTAGAATGTCC
TTCCTTTCAGGAAAGGAAGGATAGTTTAATATTAGGAAATCTATTGATATTGTTTAACATCCTAGTATATGTAAAAAAC
AGTAAAACCATATGCCCGCACTCATGGTTGCTGAAAATGTTTGCTATAAAATTAAAATCCATTATTGATTATGAAAAAA
CACCTCATCAAATAGAACTAAATTTATCACATTAGTAAAATATATTTGTCTTACCTCAAAAGCCAGGTCATGTTTAACT
AGCAAACCATACACTCACATTAAATTGGGACAAAGATGCCATTACCACAACATTATTGAACATTGGTCTTGAGGTGCTA
ACAAACTTTTAGATAAGATAAAGAAGAGTGGTATGTACAAGTTGGAAAGGAGGAGGTAAGATAATCATATTTGCAAATA
ATGTAACTCTGTGCCTTGAAAACCCAAGAAAATTAACTGAAAGATCACTGCCAACAATAGTAAAAGAAAAAAAAAAATAA
GAGAATTGAGTAGTGTGGCTAGAATAGTCTTTACACACATAAACAACAATTGGTGCTAAGATATGCAAGAAAGGACTGT
ATGCCCAGAGAAGCTAATTCTACAGATTATATGGAAAAATGAAAAAAGCAAGAATAGCTAGGAAACATCTTGAATCAGA
ATAGTAATGAGAAGCATGAATGCTCTGATGAACACATATTATAGAGTTATAATCGTTACAGCACTATGGTAGTGGTGCA
CAGATAGCTACATCAATGGAACAGAGGAGAAAATTCATTTTTTTTTGCAGATCACAGTAAAAAATAGCTTGAAAAACCA
CTTTCCTATGTATGTCATATGTAAATTTTACATAAAAATACATGCACGTATATACTTGCATATACATAGAACAGCTTTG
GAAGTATATTCAAGAAATGTAACAGTTGTTGGGTGATGGGGTAGGAAGTAGTGTTATGTTTCACTATATTTTTTGTGTA
CCTTTGAATTTTGCACTATTTGTGGTATTATTTCTTTAAAAAGGCAATTTATTTTATTATTTTTTTCAAACCCAGCACA
GAATATTAACAAAGTAGATAATACATAGGATGGATATGGAATGATTTGCTTGGATCACTCCAAGCAAGGCATCTGAACT
ATTCACATGGTTGTGTTTGGAAGCTCCCAGGGTCTAAACACTGTAAGATTTCGGAGATTTATACCAGATCAGACTCACA
AACATTTGATTTTCCTCATTTTTCAAGATTTTTTCCCCTCTGGCCTTTCATTTATTCATTTAGTCTTCAGTAGAGAGAC
CAGGGGATGGCTTGGATTTAGGGGCTTAACCACCTCCATCTTCATCAGCTCCATTCAGCTGAAGCTGTTGCTGTTCTTC

Fig. 6.20

TGAAAAGATCCCAGGAGCTTCCCAATACATATGCAATCTCTGTAAAAGCAGTGTGTTTGCAAACACAGCTGCAAGAAAA
GCCTCCTACAGCAAGTATATAAAAAGGTGCTCAATATCACTAATCAGGCAGATGCAAATCAAAACCACAGTATTACCTC
ACACCTGTGAGAATGACTATTATAAAAAACACAAGAGATAACAAGTGTTAGCCAGAATATGCATAAAAGGGAACCTTGT
ATACTGTTGGTGGGAATACAGAGGCCATTGTGGAAAATAATATGGAGGTTCTACAAAAAATTAAAAATAAAATTCTTAT
ATGAGCCAGCAATCCTGTTTCTTAGTGTAGATCCAAAGAAAATGAAATCACCTCATAGAGATATCTGTGCCCCCATGTT
TCAAAGCATTATTCACAATAGCCAAGATATGGAAACAACCTTTGGCTGTCAATAGATGAATGGATAAAGAAATTGTGTG
TGTGTGTGTGTGTGTGTGTGTGTGTGTACACACATACACAATGGAATATTATTCAGTCTTAAAAAAGGACATCCTGCCA
TTTGTGTCAACATGAATGGACCAAGAGGAAAATTATAATATGTGAAATAAGCCAGACACAGAAAGAAAAATACTACATG
GTCTCACTTATATGCGAAATTAAAAAAAAAAAGAAACAAAATTCAAAGATGTAGAAACAGAGTAAAAAGGTGGTTACCA
GGGGTAGGAAAAGTGGGGGAGTGGGGAGATGGAGGTCAAAGGGTATAAAGTTTCATTTATGTAGAATAAATAAGCCTAG
AGATCTAATGTATAGCATGAAGACTGTAGTTAATAATATTTTATTTCATAAGGGAATTTGCTAACAGAGTGGATTTTAG
GTAATTCTACTACACACACACACACGCACACAGAAAAGGTAACTGTGTAACATGATAGATATGCTAATTTGCTTGATGT
GGTAATCATGTCATTATGCATATTGTTAAATAAAATTTATGGAAGCTCTCATTCTAGATCCCAACAAACCAAAGCAAAA
TGGAGTCCCACACGCTAAGTGCCACATGATTAAACTGAAATTTTAAGAAAGCAGGTAAATTTCCAAACAGACCAGATAT
TTTTGAAAACAGAAGATTCACAGAAACCAATTAGAAAGGGCCCAGTCAGCCTAAGTCAGTATAATAAGGAAATCTCCAC
AGTTTTAACCCTTATAAGAAAAGTAACCTGAAGTAATCTGATGTTAACCGATCTGCCTTTTTCTATTATTCTGTTTCCT
TGTTCCCACTTTACAAAAACCAATTGTTCTGCCATGCCCAGTGGAGCATTCATTCTATTTATAGAATACAATACTGCTG
AATTCTAGAATCACAAATAGAAGCCAATTAGATCTTAAAACTAAATTTGTTATAGTTTTGCCTTTTGACAATATGTATA
TCAAAACATCGTGTTAGGTATTGTCTTAGTCTGTTTTCTGTTGCTATAACAGAATACCACAAACGGCAATTTATACAGA
AAGAAGTTTATTTGGCTTACAGTTCTGGAGGCTGGGAAGTCCGAGAGCATGGTGCCACCATCTGGTGAGGGTCCTTCAT
AGTGAAAGGGTGGAAGGTGGAAGTGAACACTAGAAACAGAGAGCAAATGGAGGCTGAACTTATCCTTTTATCAGGAACC
CACTCATGGGGCTCTGCCCTCGTGATCTAATCACCTCTTAAAGGGCCCACCTCCCAATACCATTACATTAGCAATTAAA
TTTCCACATGAGTTTTGAAGGGGGCATTCAAATCATATCAAGAAAAAAAAAAAGTCAAGTCCCCTAGGCTTCTCTTCTAG
GTAGATTCCTGCTTCAGTCCCTTCCTATATAGAAACTCTGGAGTTTCCCCTACCTCATACTATTGCCTGTTTTCCATGG
CTCCAAGAGAAAAGGAATATTCTCTTTTCTTCTGAAAAAGCACTACAGTTTATTGGTCAGCACCAAGTGTGTTTAACTT
CAGTTTCAGATGGCAACTCACACATAGATGTGTTTATGTTGCCCTTTATCAGTATTATCATTGGCAAAGCCTTTGGTAA
GCAACAGAAGTGGCTAAACAGAATAATTCCAGGCTTGAAGTTCCTTTTTCATCTGGTTCCCTCTGGGAAAAGGCTATGA
AAGCTAAGGGTGGTGGCCAAGTCCCAAAGGCCAAGGTCACCATCAAACATTTTCTGAGAATCTACCAAAAACACAGGTC
TGTATTAGGTCAATATGCACACAGTTGTGCTGGGAAGGAATGAAGCTTTCAAATATGAGAACTGTACCTGAAAAATCTT
TGCCATCAGTTCTTTGAAATGAAACTCTAAGCTGGGAAGAACTCTCTGCTTAGGGGAAGTAGGACTAAAACTTGACTTT
TGATTTGGAGAACATTCAAAAGACTCTAAGCTCATGAGTGCTCAACTTGTAATTTTTTGCCCTTGAAAAAACTATAGGC
GGGTGCAGTTACACCTGTAATCCCAGCACTTTGGGAGGCCAAGGTGGGTGGATCACTTGAGCCCAGGAATTCAAGATCA
GCCTGGGCAACATGGCGAAACCCCGTCTCCACTAAAAATACAAAAATTAGCCAGGTGTGGTGATGCATTCCTGCATGCC
AGCTACTCGGGAGGCTCAGGTGAGGGGATTGATTGAGGCTGGGAGATTGAGGCTACAGTGATCCGTGATGGCACCACTG
TACTCCAACCTGGACAACACAAAGACCCTATCTCAGAAACAACAACAACAACAAAGAAGCAACAAAAGGGAATTTGTAC
TTTTAGCCATAGAGCCTTCAAGTTTGTTATAACCACTGGGGAGAAAACCCTTCATTTCTACTTCATTCCTAAAATGGGT
TAATCACTGATTATACATAGAAAATTTACTCAAATGAAAACAAACCACCACCAGATTTTACCTTTAAATATATTTTCTT
GGTATTATTTTAGGTTCTGGTAGCAAAAGGTGCAGAGATAAGGACATGGGTTAATGACATGGGTTATTTATTGCACTCT
GCATACAGCAGCAAGAATGCTTTTCCTAAAAATTCTTTTTGCTGAAGTCCCTTTTTTGCTTATGTCTCTTTTCCTAAAA
AATCTTTTTGCTTAAGTCCCTTTGTTGCTGCCCACATCATTTGATTTCCCACAGCAAATTATTATAAGCCTGCATTATC
CTGTTTCTCCTCCTCCTCTGAATCTTCCTCTCCATCAGCACGATTTCTGTTTCTTTCTTTGCCAACTAGCTGTGTGGC
TAAGAGTAAGTCACTGGAGTCTCACTGTCCCTTTGTCTGTAAAACTATGGTTTGGAATAAGAAGGGTCCTGGCCTGCT
ATGGGGTGTATCAGAGTCAGGGTGAAAGGGTCTTAAGGTATTTGAAAATAAAGCAGCAGATAAGCTTGACATGGAGAGT
AGCCTACCTCTGGCTCTGTTTTCTCCATTTCCTTAGGAGTGAAAAGCTGGCCGTCAGCAAGCAGATTCAGTGCTCACAT
TGTAGCCACATAATCAAAGGAAGAAATACATATCTTTTTTTTTTTGAGATGGAGTCTCACACTGTCACCCAGGCTGGAG
TGCAATGGCACAATCTCGGCTTATTGCAAGCTCCGCCTCCTGGGTTCATGCTATTCTCCTGCCTCAGCCTCCCGAGTAG
CCAGGACTACAGGCGCCTGCCCCCACTCCGGGCTAATTTTTTTTTTTTTTTTTTGTATTTTTACTAGAGGCGGGGTTTC
ACCGTGTTAGCCAGGATGGTCTCAATCTCCTGACCTCGTGATCTGCCCGCCTCAGCCTCCCAAAGTGCTGGGATTACAG
GCGTGAGCCACCATGCCTGGCTGAAATACGTATCTTTTAAGATCTAAAGAAAATCGTTTTAAAGTTACTGTTGTGTCCA
TCTTGTTTTCTTGTTACTGAACTTATTTCAAAAATTTAAATAACATTAAAGGAAGGTATAAGATTTTTATGGCTATCCA
AAAGCTGCATTAAAAAAAAAGTAACTTAAGGATTTCCAAGTCAATTTCCGGCTGTGAAAATCACACTGTGTCCTGAGTT
GGTGGGTTCTTGGTCTTACTGATTTCAAGAATGAAGCCGCAGACCCTCTCAGTGAATGTTACAGTTCTTAAAGCCAGCG
TGTCTGGAGTTTGTTCCTTCTGATGTTTGGATGTGTTCGGAGTTTCTTTCTTCTGGTGGGTTCACGGTCTCGCTGGCTC
AGGAATGAAGCTGCAAACCTTCGCAGTGAGTGTTACAGCTCTTAAGGCCACATGTCGGGAGTTGTTCGTTCCTCCCGGC
GGGTTCGCGGTTTTGCTAGCTTCAGGGGTGAAGCTGCAGACCTTCATNGTGAGTGTTACAGCTCATAAAGGCAGTGTGG
ACCCAAAGAGTGAGCAACAACAAGATTTATTGCAAAGAGTGAAAGAACAAAGCTACCACAGCATGAAAGGGAACCTCAG
CAGGTTCCCACTGCTGGCTTGGGCAGCCTGCTTTTATTCTCTTATCTGGCCCCACCCACGTCCTGCTGATTGGTCCATT
TTAAAGAGAGCCGATTGGTCTGTTTTACAGAGAGCTGATTGGTCTGTTTTGACAGGGTGCTGATTGGTGCGTTTACAAT
CCCCGAGCTAGACACAAAAGTTCTCTACCTCCCCACCAGATTAGCTAGATAACAGCATCCATTGGTGTATTTACAAACC
CTGAGCTAGACACAGAGTGCTGATTGGTATGTTTACAAACCTTGAGCTAGATACAGAGTGCTGATTGGTGTATTTACAA

Fig. 6.21

TCCCTTAGCTAGACATAAAGATTCTCCAAGTACCCACCAGACTCAGGAGCCCAGCTGGCTTCACCCAGTGGATCCCGCA
CGGGGGCCGCAGGTGGAGCTGCCTGCCAGTCCTGCGCTGTGTGCCCGCACACCTCAGCCTTTGGGCGGTCGATGGGACT
GGGCGCCATGTAGCAGGGAGTGGCGCTCCTCGTGGAGGCTCCGGCGCGCAGGAGCCCATGGCAGGGGCGGGCGGGCGGG
GGTGGGAGGAGGGGAGGCTCAGGCATGGCAGGCTGCAGGTCCCGAGCCCTGCCCTGCGGGGAGGCAGCTAAGGCCTGGT
GAGAAATTGAGCACAGCAGCTGCTGGCCCAGGTGCTAAACCCCTCACTTCCTGGGCCTTGTGGGCAGAGCCTGCTGAGC
CCACGCCCACCCAGAACTCATGCCCAGCCCAGAACTCGGGCCCACCCAGAACAAGCGCCGTGCCCAGCCCTGGTTCCCG
CCAGCGCCTCTCCCTCCACACCTCCCTGCAAGCTGAGGGAGCTGGCTCCGACCTTGGCCAGCCCAGAAAGGGGCTCCCA
CAGTGCAGTGGCGGGCTGAAGGGCTCCTCAAGCACGGCCAGAGTGGGCGCCAAGGCCGAGGAGGCACCGAGAGTGAGCG
AGGGCTGCAAGGGCTGCCAGCACGCTGTCACCTCTCAATACGATCTGTGAACATGTGCCCTTTCTCAGTTCAGAAAGCC
ATTTAGAGCAAATGTACTTATTTACTTTATCCAGGCTCTGCTTACTCCTCTCCTCTCCACAGCCATCTCCTCCATTAGA
AATGCTTTTCCCTGCCATTTTTGACAGACCCTGAGCCTCCTGGCCTCCCTGCCTGAGACGCATTATAGTCTCTCTGACC
TGGACCACTGCATGCAGCTTGGGAGCCTCCCTGTCTTTAAGGTATCGGACAAAATATAGATGAGAGTAGCAAGGCATTA
GGAGTAGTAGTAATAGCAGTACAAACAAGAATAATAATTTTTATGATAATAGTAGCTAACATTTGTTGAACTCCTTTTA
TGTGCCAAGCATTTTATGTTTATTATCTTACCACCCTTGACAAGGACCTTATGAGGTGGGTACTATCAACCCAGTTTCT
CAGAAGGGGAAACTGAGGCTTATAAAGAATATACAACTTGCTCCAAGTGGTAACTAGTGGAGAGAGGATTTAAACCTTG
GCTCTTCAACATCCCATAACCTATGCATTTAGTTGCTGTTCATAAATAGTCACCTGCATATGTTCATCTTGCTTTTACC
TGTGTTCATCCCATCTTTTTTGTGAAACTCCTGGAAGGCAGGTCGTGTCTTCTTTCATTCTTTTATACCATCTCAGAGG
GCTGTAACAATACATGCTCAGAAAACATTTCTGTTCAACCTGCATGAAGTACAAGGCAGGCTGAAATGTAAAGAAATAC
ATAAATTACACTGAGGAAGAGCAAATCCTTTCATATAACTTTTTCCTGGCATTACCTCTTAGGGGAAAAGAATTCTCAA
GCAAGCTGTAACTGAGCTGGTTACCAAAATCAGAATGAATTCTCCCCAATCACGGGGGACATTCCATAAGCCTTTGGAG
TGAGGTCTATTTTAAGGATTTTGTTCAAGTTCCTCCTTCTTGTTTCCTGGCCACACTGCCCAGCACTTCAATTGGCTAA
TAGGGATTCTGAATAAGAAAGATACAGGCAGCTCACTTGGAAGTTACGTTAAGGACTAATAAAGATCTTGGAGTGATTT
TCAACAAGATAAGATCAGCATCCTGGTATTGAGTTATTTTGCTACATTAATTAATTTCAGTTTGTTCTAATGGTCTTTG
GCCTCCTGCTTAAATGTCAATTGAGGCAACAGATTAATTCCCCTTAAATAGTGGCCTGTCATGTCTTGTTACTTAGTTC
TGGGTTTTATAAAGTAAGAACTAAGATGGATATTTATCAATCGAGCAGATTTCTGTGTTGTGTCCTCTAAAGCCCTTGG
GGTCAGTGTCTCACTGTAGCATCACTAACACCTTTTATGGAATCAAGTGATTAATAAATGTGTCCTCATGAGACTGTGA
TGCTTCTGGGTGTTCATTTTAGATACCTTAATAATTAGTCTCAAGAGTAGCTCAGTTATTAAGTGATTTTGGGGTTGCA
TCATGTCAGGGAAACAATCAAGAAGAAACTATTTTAATAGCATAAATTTCTCTGAGATAGTGAAGATAAAAGAATGCTA
CCAGTTTACCCACTCCTTACTGTCTGAGTCAGGAAGAAGGTGGAACATCCTATTCCTTCTTCACCTCTATTACCTCATT
TAGAAAATTTTGACTATTTCTTCTTTTAGCTCCCTTTTTACGGTCCACCATTTTTGGAAGATGACTTTCTCCCTGTCTT
CTTAGAATAAAAGGTCCAAAGGAAGAAAAGAACAAGATATGCTCAGGAGTTACCTGTGATGACTTTCTCCCTGTCTT
CGGGCACTGGCCCACCACTCCTTTTTCTATTCTCAGTTCTTTATCTATTTACTTTTCTATTCCCTGCTCCTTTCCTATT
GTCCTGACTTGCATGACACTGGCAAGCTACAAAATGGGAACAATAGCAACTGCCTTAGAAGGCTGACAGGATTCACGGG
AAGCACCCTGAGCAGAGTCTAATTCCTAATGAGTGGTCCTTACATATTAGGATCATTTTCTTTCCTTTTGAGCTTCTGG
TTTCTTGGCCTCTGGCCTTAGCCTCTTTCAACATATTCTACATAGGTAATCAGATTCACCTTCAAACAATGCTGTTTTG
ATCTTGTCATCTGGTGAAGAAAAAATAAAACCTTCAGTGGCTTTCTAAGACGATGAAATCAAATTCAAAGTCTCATCGT
GGTATTCAAGGTCTTCTGTAATCTCCCCTCAGCCTGTGGCTCTTACTGATGCCCCATTCTTCTATTGCTCAGGGTGCTT
TGGGCTGTAGCCACTAGGTTGACGAGCATCCTCTTGACGAGCATCCTGATGATGCTGATAAAAGTGCTCAAGGACATTT
TGGGAATTTTTTCTTTAGTGTTATCTAGGATAGTACTGTATACAATGCATATTTTTATGTATAAATCTTATTTCTGTCT
ATGTTAGTTGCCTTGAAACAAAAACTGGGCCTTTGTATCTGTGCAGGCTACAAAGGCTTGACACTGCTACCCTTAGAAA
GGCCTGCTTGCCAGGTTAGCCTTTGGTTGGTAACTGGGAACTGAGCCCTTGGAGGGCTCTCAGTCAACAGTCAATTGAT
AAGTGTGGTTCACTGTGCCTAGACTTTTGTGCAAACAACACAGTTTATGCTTGAACACCTGCTCCCCTGTTTGGAGTCT
GGAATATTTTGATGTGCTAGGCAGAGGGTGCCTATGTGATCAGCTCCATGAAAAACCTTGGGCACCGAGTTTCTAAAAA
GAAGCTTCTGTGGGCTGAAACGTCATATACAAGTTGCTACATTTTCCTTGCTGTACTCTATGTGATCTCCCGTGGTAGG
CAGAAGCATAAGGAAATCTGCACGTAAAATCATTCAGACNCTGCCTGTGGCTCTCCCTTATGATCTGGCTGTGTATCCT
TATTACATCACTAGAATAAATCTTAGCTTTAAGTACTGCCATACACTGAGTCCCATGGGTCCTTCTAGTGATGTCCAAA
TGTAGGGGGCAGGGGTCTTGGGTACCCCTGACACAGTATCTCTTTCAAAACAAATTCTTAGAGTAGGTTCTTAATAAAT
ATTTTGTGATTGAGCATCTCAAATCTCCCAAACATTGTAGATGCTTAAAACATTTAAACACTTTTGTTTCTTTTTACCA
TTTTTGATTTTTTGGGCACCTTTAAGTTTTTTTTTATATGCCATCAGGCCAACATTTATAACATATGGTAGATCTGAGA
TGTTGTTTTACTGCCTACAAAGAATTGTTCTAGTTTTGCCTATTTATTTTCTTTTACTTCCCGATATTTCAGACACTGT
TAGATCTTGCCAGAGCAGTTCTTTTGGGCTTTTGTGATACAGAATCACTGGAAAAGGTAGAGGGTTAGAAGGGCACAGG
TTTGAGGACTAGGTCTGGGAGATCAGTTTTGGTGGGAGGGTATGAAGGAGAGAGGCGCATGACAGGGCTTGTGTGATGT
GACGTGACCACATGAAAGGAAGGGGCTTTGTGAATTGTTGCGGCAGACTGAGATTCCTTTTCACAGCATTTGAGAAATA
ACAGAAAGAGAATTTGTTATTTTGAAATGACTTCCTGGCGGCTGAGTTGTTTTCATTTGATAACGACCCCTCTCTAATA
CCAAGTCATGGTTTGCAGTTTACGTCTTAGGGTTTTCACAGATTTTATTTGATGGTAGGAACCACATCATTTGTTCTAG
ATTTAGCATGTGAAATTCCCAGTAAATTCTTGGTGACAATGACTGATTGCTTCATTCATAAACATTTATTGAATACTTG
CTGTGTGCCAAGCATCGTGTGTAGAGGATACAGAGATGAGCAAAAATAGGTCCCTACTCACATCATAGAGGGGAGGCCG
ACTCACATGCACACATTTCCAATCAGATATGGTGAATACTAGTGGTGGAAGGTTAGGAGCCCAGAGGACAGCATCTCAT
CCACTGGGACCTTGCTTCCTACGAGGCTTGTCCTGCATTTCATGGCCTTAAATTTCACCAATGTAGTTATCTAGTGGTG
CTGATAAATCACTTATAATTAGTTTTTTATTGTCTAAGTATCAATTTTAGCTGCTGTTTTTTTAACCTTTCTTTAGTTT

Fig. 6.22

CTGCCTACATAATTTCCTTAGAATTAAAGCATCAATAATGGACCTTTGCAAAAATAAGCACTTTCTAACACCAATGTGC
CATCCATCAGCAAAGGAGGCCATTAGCAAAGTCCAATTCATAGACTGCCTCTGATTTTGCATTTTAAACTTGCTAATAT
TTAGCTCACAGTGTGATTTTCCCACGGTCACACACCTAGTTGGTGGTGAATTGCCGTAATTTTGCAATTCATATTATTT
TGCATGTATCTCATTTTATTTGTATTCTGTGCCAATCTCTCTGATATTGAATGTAAGTTTATTGAGTGCAGATGTCTGT
GTTTTTATTTTTGTGTCCCTAGTGCCCAACATATNGTCTAGGGAGGAAAATACTTGTTAGATAAACAATTAGATGATCT
ATTAGGATTCTGTAGAGAAACAAAACCAATAGGAAATATATAGATACATAAGAGGAGATATATTGTGGAAATTGGCTCA
TGCAATTATGGAGGTTGAAAAGTCTCACAATATGTCATCTTGAAGCTGGAGAACCAGGAAAGCCAGTGGTATAATTCAG
TCTGAGTCCAAAGGTCTGAGAACCAGGGGAGCCAATGGCATAACTTCCAGTCTGATGCCAAAAGGCCTGAGAAACTTCA
GGGGAGAATCTGAAGTCCCAAGAACTAGNAACTCCAATGTCAGAGCAGGAGAAGATGGATGTCCCAGCTCAAGGAAAGA
GAGTTCACCTTCTTCTGCCTTATTGTTGTATCTAAACTGTCAATAAATTGGATGATGCTGGCTCACATTTGTGAGGGCA
GATTTTCTTTATTTAGTCTACTGATTCAAATGCTAATTTCCCCCAGAAACACCCTGAGAGACACATCCAGAAATAATAT
TTTACCAGCTATCTGAGCATCCCTAAGCCCAACCAAGTTGACACATAAAATTAATAATCACTGATGATAGTAATGAAAA
GAAAAAACTTGGATTTCTGCTTTTTGGTCTTCATGAGATATTTTCCTCACTGTATCTCTCTTCATGAGATATTTTNCAC
TATATCACATGGATATATTTTCCACTTCGATATAGTAGAAAATATGCATGGAAAAATGCATCTATTATTTATTGAGCAC
ATATTATACTTGAGGCACTCTGCTAGGCACTGTATTGAACAAAGATGATTAAGACAGTGTACCTTTCCTAAGGCACAGA
AACCATAAGATAAATATACAAATGACTGTAGTGCAAGGTAGAATATACAAATGCACAACTAAGCAAATCTGAGAATGGG
GCTTTCACACATTGTGGGAGAATGAGAGAAAGCTTCATGGAGGAGGTAACTTTTGACCTAAACCTTGGAGCAGGAGCAC
CTGAGTTCCAGAGGTTAATTAAAAAAATGAAGGCAGAGGGAGAGAGGGCAGGGTGGGCAAAGGGAAAAACAGGAAATAT
AAATGTGAGTCATTTTTGGAAAACTGTGGGAAGTCTCTTTTAGGTGTGGTGTATGAAGTGTGTGTATGTTGGGGGAATA
GAGCAAAGTAAGGATTAAAAGTCAGGTTTCCAGGCTATGTTGCCTGGCCAAGCTCAGGGCTTTGCACTTGGTTCATCAG
CATTGATATGTTTTTTGTTTTGTTTTGTTTTTTTGACAGCGTCTCGCTCCGTCACCAGTCTGGAGTGCAGTAGTGCAAT
CTCGGCTCACTGCAACCTCTGCCTCCGGGTTCAAGCAATTCTCCTGCCTCAGCCTGCCAAGTAGCTGGGACTACAGGTG
TGTGCCACCCCGCCCAGCTAATTTTTGTATTTTTAGTAGAGGCTGGGCTTCACCACGTTGGCCAGGATGGTCTCGATCT
CTTGACCTTGTGATCCGCCCGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCGCTCCCGGCAGCACTT
ATGGGTTTTAAATATGAGAGTGACAACATCAGGTTATTGGGCAGCAGGAGGTGGGCCAGTTTTGAAAGGCAGGTGAATG
AGGCAGTGAGATAAGTTGGGAGGGGCTGCAATAGTTCAGAAACAAGGTAGTGTGCAAGTAAATCACAGGTGGCACCAGA
GATGAAGAGGAAGAGGCAGTGTGACAGCTCTGTTGCATGACACAACATGGGAAACGCAGGATTGAGAAGAGCCAGAGGT
GATGATGCCATTAGCAGCGTGCATTTAGTACTTATCACAACCTATTTACATTTTCTATATAAACATTGATCTCATTAGA
CTGTGATCTCCTAGAGGAACAAGTCCCATGTCATTCTCATTGACAAAATGAACATGGCAGATACTTGGTAAATGTTTGC
TAGTAAGTGAATGGAAGTCAGGCGAGTTGGCTTGGTGATGGCAGCTGGGGTGTTGATGGAAATACCGTGCTTCTTTTTG
GACATGATGGAATTTGGGGATGTGGTCTATTTGTTAGATGCAGTTTCTAGGAAGAGATTACCCAAAGAACTGAAGAACA
ATGACAAACTTATGTGTATGTGAGGGCAAGATAAAGAGTAGAGAGATGGTATAGTTGGGTATGGAGAGAATGCTGTAAC
TGAACTGCTCCCTTCAAGATGTCAGGTAAGATTGGAGAGAAAATGCAGGATAGCATTTGTCACAGGTAGTTGGAATGTG
GAGGGAAGACTGGAAGGATGAGAAGGACTGAGGTGGACCTGTGGGCTGTGTTAGCCGGTGAAAGTTGGAGGGAAAGGGA
AATGGGAGGCAGTAGAGCATGGAGTTACATATGCAGGCACTGGAGTCAGGCTGTTGGAGTTCAAAGGCTAGCTCTTCTG
TGGATTTGTTATGTGACTTTACACGCTCTCTCTTGCCTCAAGTTCCTCTTCTGCAAAATGAGGTTAATAATAATACCTG
CATAAACACATGCACAGCACACAGAACAGAAGCTGGAATGTGATAAGCACTTCATAAGCATTAATTCTTCTTACTGAAA
CTCACTAGGGTCACTTTGTGCATATTATCCTATTTAATCCTTAGTAACTGTATAGGTAGGTGTTATTATCTTCATTCTG
CAAATGAGAAAACTGAAGTGCAAAGAAGTTTCATAATTTTCCTCAATCCACACAGCCACTATATGATGTGATAAAGCTT
ACCTAAGCTAGAGTCTTACCTGATCCATCTGGTGCCCGGGCTAGTGCACTTTCTCCTATAACACTCAGCCTAAGCTAGG
TAGATATGGCAAGACCACTGGCTGAGGCAACTCAGATGTGATCAATAGGTAGTAGGGAACTGTGGCTGACTTGGGGGCA
GGGGAAGCAGCATGCTGGAAAGATTCATCTGGTATGTTTATAGAAGAGAGCAGGCAGCAGGCATGGGGGGCTGATGATT
CAGACCAGAAATGGCTGAGGAAATGGTGAGGTCTGGCAAATGTCAGAGGAGCTGTGATAGAAGAATGAGCAGAATTTAT
GACTGATGCAAATAAGGTAGATATGATGGTACGTGACAGAAACTGACTAAGAAGTCTGTATGCAGTGGGTGCAGCTTAG
AGTTTCAACTTGAAAGTTTCAAACCTGGGACTCTAAGAAAATAGTCTGAATGGTAATGAGAAAGTTGTCACTTTAGTAT
CTGCTTCCCTTGAAGAAAAGCACCTTTAGAGGAACCAACTTGGAGAATAGTGTCGCATCAAAGTGGGACACTTCATTAT
TTTTAGTGGCAGCATGGTTCTGATGAGCACACCGTCGGTAACCTTTACTTCACTGTCAGTCCAGCTCTGTCAATCCTCC
TTTATTAAGGAAGGAAGCTGATGGATCTTTCCTTTCTTTCTTTCTTTCTTTCTTCCCTGGAGTAGGATGTTTTCTGTAC
ACAGTTAGCATGTGAACTTCTTTTTAAAAAGAAGTTTACATTTTACTCTAATTCTCATCCATAACGGAGTGTGGTGATT
TGCATTTGGGCAGTTAGGAAAATCAGTTCTGTTGACTTCCTGTTTTCTATTTCTGGCCTCGAGCAGAACTTCCCATTTG
AGTGGGACCAAGAAGAGCATACAAAGCTGAAATGTTCTCCAGAAGTTGATTTCCAATGGGGATAAAGTAAGTTAATGGT
CTGAGGTGTTTGTCTCCCCTTGCCCCCGAAGCTTGCCCTTTAGTTGCTCTTGTTTTTAAACTACAGGGAATGAACTGAG
GGAAGCATTTTTTTTTTTTTTTCCTGCAGGTCAGAGTCCCAAAGCTTTAGTGCAGGGTTCCAAGGACTCAGGAGTTCA
AAACATGCTGCTTAGGCTGAGCTCTTGGCCAGATTTGGAGATTCCAATGTCTTCTCCCTTTGACAGTTCCTAAGAATAT
TTTATTTGGATCCTTTTCTTTAGGTTTTTCTGTCTAAACATTTTATTTTACCTAGTGTGAAGGGGTGAGGGAGGGCAGA
TTGTTTCCTTTCTTCCTCCTCTCCCCTTCCCCCTCCCCTCTCCCTTATTCTCTGTTTATAATTTAAAAGGATGCTCACT
TTCATTTTCTCATTTGCTTCCTTCACAGCACCCTGTGAAGCTGATATTGTTATCCCCCTTTGACAGAAGGGGAAACTGC
AGTTTCAGTGAATTTCAGTGACTTAGTCAAGTCACTCAGTTAACAGTGCTGAGAGTGAAGCCCTAGTGTTCTGCCTTTA
GATCTCTTTTTCCCAGTACCATACTGCTTTTCTGGTGGAGGTTGTAGTATATAGGATGATGTCAGAAAGGAGAGGCTGG
GAAGCCTGAAACGATCACATCGACAATTGAATTGTCTGTTTTTTCTAATAAAATAGAAAATGTTAACTAAATATATTGC

Fig 6 23

CATGCAATTCTTCAAGCATATAGGACTTTGGGTCCTTTTTTGTGTCTCAGACTTTAAGATGATGTCTCCTGGGGAGTCA
TTTACTATATGCAAGGAGAATAGCTGAAAAGTCAGGGTAGGCCAGCAGTATTTCATGCTTTGTACTTGGGCAATATGGG
TTTTTCTGTTGGAGGTTCAGCAGAGGATGGTAGCAAAGTGACATTTAATTCTCCTGCTTGCCAAATCTTGGTGAGGCCA
AAGTGGGTGGGGAATCGGTTGTGAGTAGGTGTTAATGACGAGTGTCTGGACCTTGACGTCTTCTCAGTCCTGGAGTAG
GGAAAAAGGAACAGAATTAGTGCTGTTTAGAAGAAGCTGGTGATGGAGGTCTGCTTAGGAATGAGTGCAGATTAGGACA
GGGGCAGTGAGGGAGGCCCACAGAGACTCTGGCTGCCTGTCTTTCCTGGCATGTCTGTGGAATGACCTTGCTCTGCCAG
GACTCTGGGAGGAAGCCTTTGATTTTGGGGGAATCTTTAGGACTATGCACATAACCAGACTTTCCTGATGGGAATCTCC
AAGGGGGCCTCCTGGGCCAGGGCCGTGGGCCAGCAGGTGTCTTCCTAACATGGTCTGTGAATAGTGCCCAACCTAGGCG
GTGCCTTCTTTTCCTGAATCAAGCCCTTTCCTCCTCAGTGCCAAAGCAGAAGTGGCTGGGTGGGTGAAGATCTGAGTGC
TGGCCCGGGGCCACAAGCCATGGGCCACTACCCATATTGCTGTGAGATCCTGACCTTTCTCTTTTCTGGACTCACAAGA
TAAAGAGAGTGAATGAGGAGGAAAATCAAATATTGTGGCAGGGAGGGGCTGACAAACACAGGCATGGCCAACAGAAGTC
TCCCACCAAAGTGAGGAGCTGAGAGAAGGATTTGGGGAGGGAATGTCAGAAGTCTCACTCCCAGGCAAAGGATTCAACA
AAGGAAAATCCGACTCTGGCTTGAATATGGTCCAGGTGTGGGGTTAGTAGTCCATGTTACTGTCTGACATGGGAGAGCA
TTCCACTGTGATGGAAATGGGGTGGGTTGGGGTACAGGAGGAACCATAGAGGTAGAAGAGAAAGGAGGTGAGAAGGAAC
ATAGTCTGGCAGTTGACCAGAGTGTATCTGGCTGTATGGTGTAGTCCCCATAACAGGGCACCTATGTCTGTACATTGCA
CAAAAACAACCATCCAGTGTGTTCTTAAAAGTCCTGTGAAGGTACATTGTAATTTGAACTATATTTTGAAGATATCAGA
GGATCCTATCATTTAGAAGAATCTCATGGGAATTACTTTTTAAAAAGAAAATAATCATTTTAGGGAATAGAAAGTCTCT
CAACGATTGGTTTTGAATCTCTGGGTTTTAAATCCATTTACTCCAAGTAGGATTCAGTATTTCACTCTTTCACTGGCAG
TGGATTGTTTTTTCTCCTACATATATGGCTTGAAAGCTCTTAACAAAGGATAGTAATTAATTATTTCCCAGCTATTTTT
ACCTTTGACGTATTAAAAGTTGGAGGAAACTATTTCATTTAACAGAATTTAAACAAAATGAAAAAGTTATTTTCCTTAA
GGTATTCTGCTGTGCTTTTTCAAGGAAAAGCCTCCTCCAAAGGCACTTTTGGAGACAGTTACCAAAGGAAAATCCCACC
CACCAACAGAGACACTCAGCCTCTAAGTTTGGCTTTTGGAAAATGAACACTATTCTTTTTTTTCCAAACAGGACGCTGT
GAGATCAGTCATGTACACTATGAAAATAATTGGTGTGCATTAGTACACCTTGTGCCAGATTTCATGCTTGTTGAAAGGT
GATTGGATTCAAACCAGCACATTTAAAGGTCAACTGGTTGTTCTTAAACTGTGCAGAATTTTAACTCTTTCATTATAAT
GGATTTTAACCAAATGGCCATTTTAGGAAGGAGAGAGACTGCATACTGTGTTTTAACTTTCTGACCTTTTTGTTCTTAA
ATTTTTTGTAAAGTTCTCAGGGATTTCCTATGGATGGAAAGGGTCTGAGAAATCAGTTCTCAGCTGGCATTTGGAAAAG
GGTGGAAGTAGAAACTGAGTTCTTTTTAAACTGCTAAATTTAGGTCAGGGCTTTAATACGACTGTGCACATCACATAAG
CAATGTCTAAATGTCAGGCTGAATGTTCTCTCTCTTTTAAATAAGTACTTCAAGTTCGTTAGTAATAGCTAGCCCTCTG
TCTCTTTCTTGCTTCTCCTCTCACCTTTGAGCAACTTTTTAAGTTCCTTTAACAGCTCTGTGGAGAAACCACCATGTAA
TGATCAATATTTAACCCAGNTGGTTGACGTTAGCCCCGTTTCTGGAATGGGTATTTCACTGGGCTTTGGGGTTTTGATG
ACGTTTTCTCCCCAGTGACTGTGGATGCATGGATTAAATTTGTTGGTCTGCAAAATACCATCTGTCTACCAGCCATTTT
GCTGTATTTCCCAAAATAAGGTAGGAGACTGATGTGTCTCAAATAAGCAGGGTGAAATTTAGTCATCTGATGATAGTTT
CTTGGGTTGTGCATTAGTGTCCTGATGAGCCCCTAGCAACTTTCAACATTATGAAGACTAGTTTGGAAGCCTCAAAGGC
AGTATCTTTCTTGAAGAAAAAAAAAATAACACCAGGCATTTCCACAAATACCATACACAAGTGGTCAGGTAAAGGCTGTG
GGAGTTCACGCATCTGTTTACCTTGAGTGTGTGTATGAACTCTTGTAGTTCTAACTAAAGGCAAATGGAAACTGTATAG
AGTCCCATTTTGTCAAGCTGACAATTCAGTATCCTCTTCTTTCCTGGTTGCTTTATAGCCCACTCTTAGTTGTTNTCTT
TCTATATTTCCTACAATTTTTAGCTGTGAGGCTGTGTATTCGTTGCTTAAAAATTCTGTGCCTCATCTGCTTCACTTGC
AAAATGGGGAAAATGTCACAGGATCCTTGGGGTGTTGCTTTGCCAGCCAGAAACCTTTGTGGCTAATGGTGCCTTTGCC
TGAGTTTTGCTCGGGCCCACTGGGCTGGTTCTGCCCACTCAGCCTGGGCAGGCTGTGCTGGGCTCACGCTACTGGCCCA
GATCTTATGCCTGCCAAGGGTGAGCCAGGCACAAAAAGGCAAGGGGTATGTGAACAAGGGAGCTGCCCATTGTGCACAG
CCAGTCATGCCAGCTGNAGCAGGGCAGGCAGCTCCAGATGCCGACACAAGTGCTAGCTCCCTGTGAGGCTGTGGCTGGA
CCAGGTGTACCACAGATGGCTTCCACTGCTGGCACCCGGGAATGTGGTGGTGCCTGGAAGCTTGGAGACGCCAGGAACT
ACAGAGCCCCAAAGAGGGTGTCACATCCCTGGCTTGGGGAGCTCCCAGGTCTGGGCTCCCTGAAGGGCTGCAGTTCCTC
TCTTCTTCTCTCTTCTCTCCCTCTTCTCACCTGCAACATGGCAAGCAAGGGGTGTGTTTCAGCCCTGTTTGTGTTACAG
CTCTTTCAGTCCCACCATTTAGTGGGTCCCAAGTTCTTGTCCTGTGTCCTGGAAGAATGAGGTACAGGGACAACTGGAG
GGTGAGCAAGGCAGAGAGGAACTTTATTGAGCGACGGTACAGCTCCCAGGAGACCTGAAGTGGGTAGCTCCTCTCTGCA
GGCAGGTTGTCCTGTCAAGCCTGCAGCTCTCAAGAGAGAGGAGACCCACAGTGGGTAGCTCCTCTCTGCAGGCAGGTCA
TCCCTTCAAATGTGCAGCTCTCAGGAGAGAGAAGACCTACAGTGGGTAGCTCCTCTCTGCAGGCCAGTTGTTCCAACCT
CTGCCCAGTCTGGCTGAGTCCAGGGAGTTTTATGGGCTTCAGAGAAGGGGAAGTGAGTGCTAATTGGTCTATGGACAGC
TGTGGGCAGCGTAAGTTCTCACTCCAGTCTGTGGAACTAGCAGCCTGGCCCCCAGGCTTCAGGCCATCCCAGGCCTAAC
GGTGGGGCTTCACGGAAACTGCCCCTTTCTGTCCAGGAGTCCGTCTGCCTCCCGCTGCCATCAACCTGCTGCACTGGCA
CCCAGGCTGTTCATGCCAAGGGGCACCTGCAGCCCATACTGAGCCACTCTCAGCTCCCCCTTGGCCCCCCTCCCATGCT
CCTTGGTGCACAGAGTCTGGAGGGGGCCGAGGCAACAGGGGGCTGGTGTGTCAGTGGTACTCTGAGCACGGGCATACAC
AGCTGGGTCGTGACAGTGCCCCAGCTTGCACTTAACTTTGCTCTGAAATTGGAGTGGGAGCTAGGAGTGGGGAGAGGCT
GGGCAGTGGGAGCAGGCATTTCTGAGCCTGTGGGGGTAGGGGGGTTTCCTGGGCTTCTGAGAGTACAGGGATGCCTGGG
TCTGCACCCACAGCTGGGTGGCTGCAGCTGTGCCCAGGAGGGCAGGACTCCCACCCCTCACACTCAGAAGTGGGTGGGG
CTTCTGCCTGTTCCCAGCTCCCAACAGCTCCATGGAATGTGCAGCCCTGGCTGCGCCTTGCCTGCTGCAGCTGGCGTCT
TC[illegible]AGCAGCCACTCCAGATGGGCCACCACTGTCATCAATTACATTACCTACCTTAGTGTTATTGTGAAAATTAAATGA
G[illegible]AATCCATGTAAAATGCTGGGAACAATGTCTGGCATAACATAGAAGCTCAATAAATATTAATTCTCATTATTGTTGG
TA[illegible]CATTTTTGCTATAATTTGAATCTTTTACATATTGTTGTGACATATGGAGGTTTTTGACCTACAGGGTTTCTTCTGA

Fig. 6.24

GTGGCATAGCTCAGGGTAAAGTGGCTCTCCTCACCTCTCAATACCCTACTGTCTTTTGCCTAAATTCCAGTTAAGGATG
GCTAGAGACATCATATGGGAAAGGGTGGTCCTGAACCAGAGAGATGGGAGAGCAAATTGCTAAGGTGGTTCTTGAGGGT
AGGGATGGAGAGCCAGACAGAGACAGGTGTCCTCCAGACAGCTGTCCTTTATCATTCACTCACTGCCTCTGCAGCTCCT
GCTGCCTCCTTCAGAAAGCGAATGTATGTTGCCTCTAATGCCCTTCCTGAGCTAAAGCCCAGTAGTTCTCAAACATCCT
CTTTCAAAGACACTGAGCCCTGGTAACCTTCATTACATTGTTGTTCTCATATTTTTCTCAAGTTAACTCACTCATAACC
TACAGTTTCTTATTACATTGATATATTGATTATGAATCTTTCACCATTAACTTTTGTTCATTTCTATTCCATCGCAAAC
TTAATATTCACAAAACAGGCTTAATCTGAGCACAAGTGAAATGGTATAGCTGCGAAATACCTGGCAGTGGTAGGTACTA
GGTGTTATAACATGATGACACTTAGAATTTATAGACACTTAGAGCATAGTTTTTCAAATATTTTGGCTGTAATCAATAA
GAGATAGATTTCACATCACAGTCTATACAGATGTACATTTATTTATATGTATGTATGTAGGCATAGCTTAAGCAAAAGT
GTCATGAAACAATGTTCAACCTATTGCACACAATGTACTTTCATGATTTGTATTCTCTTCTTTTTTATTGAAAATGAGT
CTGGTTTGTAACCCAGTAAACACATAACCTACAGTTTGAAAAACCCTGATCTAGAGGAACATCCAGTGGGTGCCTCTTG
AGTTCTTACGCACTATCCACATATCATCCGTATCATACATAATGGGTTGTGGCCATCTCAGTTTTATTTTGAGGCACTG
CCTCTTCTCATCCTGACAGAAAAAAAAAAAAAAAAAAAAGAAAAAGAAAAGGAAAGAAAGCTCAGATCAAGAACTAACACC
TTATCTTAAAACATATAATCTCTCCTTTACCTTATGCTCTTTCCTAATAACTATTCTTTTTCGATTGTCCAAAAGAAAC
CACTCTAATAACTTATAACACCATGTATTAGAAATTTAGAAACCATTTTTGAAAGACAGTAAAGATGTAAATTAATGGG
GGGACTAAATTATGCATGGATAGAAAGACTATTTATTATAATGACATCAGTTCTCCCATAAAATCAATGATATTTCAAT
AAAAGGGTCAACAGTCTTTATTTTATAATGGAGACTCACAATCTTATTCCAAAATTTATATGGAAATGCAAGTAGCCAA
GAAGAGGCAATATAGCCCTAAAGTAAAAGAACACGGAGGAAAAACTTAAAACTATCTGATATCAATACTTACTATAAAG
TACAATACTTAAGTGTGGTACTGACACAAAGAAAAATGGTTCACTGCAGTGATCATATACATCTTTTGTTAGATGTATT
TGTATGTATTTGATATTTTTGATGCTGTTGCAAATTTTATTGTTTTGTAATTTTTACCCTGTTGCAAGTATCAGAAATA
CAGTTGATTTTTCTATCCAGCAAACTTGCTAAACTTTGTGGTTAATGGAAACACTTCAGCTATAGATTCTTTTCAATAA
CACAATCACATTGTCTAAGAATATTTTTATTTTGCTTATTCTTTTTCAATCCTATGCCTTTTCTTGTTTTCCCCCCCTT
GCTTTATTGCTTTGGCTGAGATTTCCAGTGTCAAATAGAAATGTTGATGGTAAGCATTTTTTTCTCATTCCTGATTTCA
GAAGAAAAGCTTGTAGCATTTCAATATTGAGTTATTTTTTTTGTGGTGTTAACAATTTTTTTTGTAAACACCTTTTATT
ACATTTAAAGAGTTTTCTTCTGTTTCTAGTTTGCTAAGAGTTTTCTTGTTAGACGTTAAATTTTATCAAATGGCATTTC
TGAATCTGTTGATATAATAGAAATTTCTCCCTCATTCTGTTAATCTGGTTAACTATATTAAATTGATATTTTGAATGTT
AAACCAACTGTATTAGTCTCCAACCTTGTAGTAACTAAACTGAATTTAGTTACACTGTGTTTCATTACTGGATTCAGGT
GGTTAACATTTAAGATTTTGCACTGTCACATGTAAGAGAGTTCTGGCTTGACTTTTCTTTTCTTTTAATAACTTTGTTG
GGTTTTGGTGTAAAGGATATGCTGACTTCATAATACAAGTTGGGAGTGGTTCCTGTTTTTCTCTTCTCTGTAGAGTTTA
TGTAAGATTACTGTTAATTCTTCCTTATCTGTTTGGCAGAATTCAACAGTGAATCGTCCATTTCATATAAACAAGTTTA
TTTGCTTAAGGTTACTCAGAATATAATTTTAATATATCTGAAGGATCTTCAGTTAATGTCCCTTTTTCATTTCAGATAT
TGGATATTTGTACCTTTTGTTATTTCCTCCTTTATCAGTCAGTCTCACTAGGGGCTTATCAGTTTTATTAGTCATTTCA
AAGAACCATCTGTTGGCTTTTTATTGATATTCTTTATTGTATGTTTTTAAAATTTTCATTGATTTCTATTCTTATATTA
TCATTTCATTTCTTCTTTTTCTTTGGACTTAATTTGCTGTTCTTATATAATTATAATTATATAATTTATTGAAATATAT
GTTAAGATAATTGATTTTTAGGCTTTATTCTCACTTAATATTTACATTTAAGACTATACATCTCCCTCAAAGGCTGGAT
TTAGCTATATGGCACAAATTTTCTACTGTAGGATTTTCACTTTTATTCAGTTCAAAATGTTTTCCAATATCTGTTTTGA
TTTCTTCTTTGAGCTACATGTTCTTTATAAATATATTACCTAATTTCTAAATATATGGGGATTTTCCAGTTGTCTTTTT
GTTATTGATATCTAGTTTAATTCCACTTTGGTCACTTTAAGAGAATTTGAATTCTGCCATTACTAGGGCTGTGTTCTAT
ATATGTTGAAGTTTTAAAATCATGTTGTTCCCATTTTCTCTATAACTGGTGACTATTTTCCCACTTATTAGTCTGTTAC
AAGAGGTGTGTTAAAATGTCTTATGATTTGTGGGATTATCAGTTTTTGTAATTCTGTTCATTTTTGCTTTAAATAATTT
AAGCCTCTGTTATTAGGAGCATATACTTTTAAAATTATTATATCTTCCTAGTAAATTCAGCCATGTATTTCCTCCTCTT
TATCTATTAATGTTTTGTCTTAAAATCTACTTTGTATGGTGTGAACATGGCTACTTCAGCTTTATTCTGGGGTAGTGCC
TGCATAGCGACCTCTTTCTATTCTTTTCACCTTCAATCTTATATATTTAAGAAATGTCTCTTGTAAGAAACATATAGCT
TTGTTTAATACAGCCTGGCAAATTTCGTCTTTTGAATAAAATCTTAATGTTTGTGATTTATGTAATTATTATATATTTGTG
TTTTGTTTAAATCTATCATTATTATTTGCTCTCCATTTGTCTCATCTTTTGTTTCCCCTTTTTTAAAATCTTTTTTACT
TTCTTTGTCTTGAGGTTTAGAAAATTTATTATTATTTTCCACTTTTCCTGCTCTGTTGACTTCCACCACTCCCAACTTA
TACACTTCTGTTTATGTGTTTTCATTTGGCATCAATATTAACCCCCTCAGGACATTATTATCAAAGACAGTCAATATCT
ATTTAGATATACCCACATAGTTAGCCCCCTTTTTGACTCCTCGTTTTTTCTGTATCTCAGTTTCCCAGCTGCGATCATT
TCTGTCTGCCTGAAGAGTACCTGCAGTGCTTCCTTGAGTACGTGAAAGCTGCTGAGGAATCTCTCAGCTTTTATTTTTC
TGAAAATGTCTTTATTTTAGCTTTGTTTCTGAAATACATTTTCACTTGGTATAGAATTCTAGGTTGAATTTCCTTTTCC
TTAGGCATTTGAAGATGTTTCATTGTTTTCTGCTTCCATTGCCATCCAAAGTCTTCTAAAACTTCCCTAGGTAGGTAGG
TAGAAATATTTAACTCAAAGGATGAATAAAAATGTATCCACAAACCCATACTTCTTTTTTTAATGGGATTTAAAGTTTA
TAGATATTTAGTATAAAGTATTTTTACATCTGCAGATTGAATGCAGATGATCAAAGGAATCAAGTATTTGATGATTCAA
AATAGAGACCTTTGTTTTACATATAGACTAAGGGTTGGTCCAGGACTATCAAAACAATTCTAGGAAGTATTTTTCTAAC
TCTTGAAGAGAGAGAGAGGGAGCATAAAATGTACATAAACCTAAGTTAAAAGAAGTATGTAAAAGTATGTTAAAAATAA
TGCAAAAAGCATATATGCATATATTTTGCTTGAACTTGATTTCCACTGACTTGGAGTAGTTCATTCTCTAAGAATCTCA
TGTCATATTATTTTATATCTTTCTCATTTGTGAAGTCATTCAAGAGATCCTGCCTTGTATGTGTTTTCCAGATAATTTA
CACTTTTATTTTTACATAGATGTTGATTAGCTGTGTTTCATTGAATATTCTCAGTTTTGGGTATCAGTTTTCAGCAAAA
CAACTAAATGTGACACCTTCCTACTGAGCATATTGGGTCTATACGTGTGCATTTGACTTACGACTTATATTTTCACCTA
AAAAATATTTTGGATACAATATTAAATTCTTTTAGCATTAATAGAGTGCTTGAAATATGAACTTAGTGCTTTTACTTTT

Fig. 6.25

AAAATATTTTAAAATTTTGATATTTAAAAATTTGATATTTTAAAATATTTTTTCTGTACTAAAATGCACTACAATATAA
TGTGACAATTATGAATATGGATTTTAGATTAAGACAAACCTGGGCTGGAATAGTAGCTCTGTTCCTTACTAGTTGTGTA
TCCTTGGAAAAACAACTCCAACTTTCTAAGCATTAGTTTCCTTATCTGTAACACAGGGTCCATAATTTCTACCTTACAA
TGCTGTTTTAAGAATAAACGAAGTGGGAAATGAGTTAGTATCATATTCATATATGGCAGCCATTATTATTATTATTATT
ATTATTATTATTAAATTTCTATAGTATGTTATTGCCTAAGTTTGTTCATAGAATAATGTATTGGCAAATAATATTCCAG
TAGGAGAATTATTCTTATAAAATAAATTAAAGTAACTTACTTTATTCTTTAGAGTTTACCAAGATAGGTATATTTAGTG
AACATGGAGTCAACAGCNTATAATAAATTCTGTATTCTTAATTTAACAAGCATTTATTGAGTCTCTAACAACAAGCTT
AGCAGTGTTTAAAACACCATGGCAGGGCTGGGCATGGTGGCTTATGCCTGTAATCCCTCACTTTGGGAGGCCAAGGTGG
GAGGATCACTTGAGGTCAGGAGTTCGAGACCAGTGTGGTCAACATAGCAAAGCATCGTCTCTACTGAAAATACAAAAAT
TATCTCGGCATGGTGGCAAGCACCTATAATCCCAGCTACTTGGGAGGTTGAGGCAGGAGAATTGCTTGGATCAGGGAGG
TGGAGGTTGCAGTAAGAACTCGCCACTGCACTCCACTCCAGCCTGGGCGACAGTGCAAGACTGTCTCAAAGAAACAAAA
CAAAACAAAACAAAACAAAAAAACTACCACGGCAGGAGGAATTTCAAGCATGTGAAAGCTGTTACCAAGGATAATTGTG
CCTCCATCACAGGTGTCTGCCTCTCCCCATCTCTGCTGTCAGTGCTGGAACCCACACAGTATCACTTGTCTGGGTTTTC
ACAGTAGCTGCCTTACCACTTAACTCCCATTTATTGTCTCTCCAATCCATCCTTTATACTTTTTCCAGAAATTATCTTT
CTAAAACAAAATCATGCCATCATCATTCACACATTCATAGACAGCTGTTGTCTGTGGAAAACACTTCAGCCTCATTAAG
ATGTAAGGCCCTCCGTACTCTTGCCCTTCCAGCTGTATCACCTCCTGTTTCCTTTCCTGCAGCCTATACTCCGGCCATA
GGACTAATTGCAAATCTCCATTAGTACCGTGTCCTTCCCAGCTGTTATTTTAGCTAGACATGTTTTTTTAGCCATTTCT
TGCCTCTCAAAATTGTACTCATTCTTTAAGATATAAGAGAAACACCATCTTATCTATAGTCTCCCTAGATGTAGAGGAT
GAATTCGAGTGTTAAAAGCAAGAGGTGGGCGTTGTAGTGTTCTAAGGTAGGGAGACTAGGTATAGAAAGAAACCTTGAG
ATGGAAACCAAGGACAGAGAAACTTTTGCAGAATGCTGTCTCTGTGGGCTGCCTGCCCTGTCTTTCAGCTGGAAGTGGT
TCTTCCTTTCTGTGTTCTCTTTCTCTGATGGGCTGCTGAGAATTATTGCATGTAGGAAGCCAGAGAATGTCTCACTGTT
CTCCCAGCAGCTGCTGCTTAGGGCTCTCTTACTCCACTCTTTTTTGATTCCCTGGTCTCCTGCAGAGCCATTTATTGTC
TGGACCTTCCCTATACGTTGTCTTCCCCTTAGCTCAAGGCCTGGCCTCTCCTTATCTCTCCTCAGAGTTTGACTTCTGA
TGGGATCTGTTGTGCTGGAACTAGCTGTGATGTTTCTCTTCTTCCTGCTTCACCTATGGGTTGGTTCCTCAGCCCTTAT
ACTGGTCCCACTGGCACCAGCCCTGACCCGATTAATTCCCTTTCATCGTCCTCCATACCCAAAGGTCCTGTCTTGGACC
AGGGAGGCTCACTGGGCCAAGTATTCATCACAAATGTTAATAAATATAACCTAATTTTAAAAGAAATATCTCCAAAGAG
TGTAGCCTTCTAGGAGACTGAGTACAAAAAAAAAGAAAGGGGTGGAGCAGGACAGAGTATGAAAGAAATATCTCCAAAGAG
GGTCAGGTACAACTGGGAGAGAAAAATGCAGAAGCTGTGGGCATGCAAGGCCAGAAGTGTAGCCAAGAAGCAGNAGGTG
AAGTCAAAGGTGGATGAAGGGAAAGAAAGATGAAATGAGAGAAAAAAATCCTAGGAGTCTTAGCATTGGAGGGGGAACTC
AGGTGCGAGAAATGATCTAATAATAGTTGAATGGAGAGAAAATCAATGTATGGTCAATCTTCATTATCACAGATTATGT
GTTTGCAAATCCACCTACTTGCTAAAATTTATCTGTAATCCCAAAAGCAATCCTTGCGGCGCTTCTGCAGTCATTTGTG
GACGAGCGTGAAGCAGTGAAAAATTTAAGCAGTGCCACATGTGTATTTCCAGCTGAGGGTGAACAAGGGATGCTCAGCC
ATCGTGTTTCAGCCCTCATGCTGTAAGCGAGGGTCCTTTCCATGATACGTTTAATGCTGTGTTTTTGAATTCTTGTGTT
TTTCACTGGTGATTTTGTCATGTGAAATGGCTTCCAAGCATAGTGCTGAAGTGCTCTCCAGTGCTCCTAAGCACAAGAA
GGCTGTAATAAGAAGAAATCTGGCCAGGTGCCCTGGTGCATGAGACCAGCCTGGCCAACATGGTGCAACCCCATCTCTA
CTAAAAACATAAAAATCAGCTGGGCCTGGTGGTGTGCACCTGTAATCCTAGCTACTCGGGAGGCTGAGGCATGAGAATA
GCTTGAACCCGAGAGGCGGAGGTTGCAGTGAACCGAGATCATGCCACTGCACTCCAGCCTGGATGACAGAGCAAGACTG
TGTCTCAAAATAAATAAATAAATAAATAAATAAAAGAAAAGAAAGAAAGAAAAAAAAAGAGAAATCTGCATGTTGGATA
AACTTTGTTCAAACATGAGTTATAGAGCTGCTGGCAGGGTGTTTAGTGTTAATGAATTAACAATATATATTAAAATAAG
CTATCTTTAAATAGAAACACACAAAAAACAAAGTTATGTATTGATTAGGTGATGAAAATATTGTGACCAGAACTTGCAG
AAACCTGATCTTACATTTCCCCTGGGAGCAATGGTTCAGTATTTGCTAATTCAGTGTTCTCAGTGACTTTATAGAATGT
AACTGCCACAAATAACAAGAATCAACTCTGTAAACATTTTTGTTGGTCAATGGATATGCATGTTTAGACATTTTGTAGA
ATTATAGTCAACCCAAGTGAAATGGAACTCCTTTTATTTGACTTGGGAAGTTGCTCTATTCTCTTCTGTTTCAAACAAA
ACTCTAAATAAAATCCTCTTTTGTTCTGGTTTATTTTAGCAGATGTTTACTGGTGTTTACTGGCAAATGTGTTGAGTAA
GTTAGGTAAAGTTGACCTAGACACAGTTTTTGCTCCCAAGGAATTCTCAATTGATCATGGAAGACAGGAGATGTGTGTA
ATCAACAGTATTGACATTAATTTGTATTCCTGGAACAGGTATCGACTAGAGTCAAAGAAGGTTTTGGCTGGTCCTGAAC
AACAAGGAACCCAACGTAGGTTCACAAAATAACCACATATTGTCCATAGAGTAGGTGTCTACAACATGCTAGTGAAGGT
TGACATTATCTTAGAGCTTCGGGGATTTATAGATGGAAGGGATCCTACAGGCCCAGTATGTGACAAGGACCTGAGCATG
TTTAGATGTAGAGCTAGAACTGAAAACCAAGCCTCATGGCTGAAACTGAATCCTTTCCCACTAAACCATACAGGCTCTA
TGCGCTCGAACTAGTTATTGGAGTCCCGGCTTAAAATGAGCTCATGTTCCAGAAATTCCACTTAGGTCAGATGTTTATA
AGTCAGTCTGAGGTTGTTCCAGGATGAGCTCCAAGGGGTCTGTTTTGCTGTATATGAATATTTTTATAGAAGGAAGCTC
ATAAATTTTCATGTGATTCTCAAAGGAGTTCATGATTCCAAAAAGTCTAAGAACTTCTGTGCTTATTCTGAGGTTAACT
GTGCACCACAAATACTAAATTCTATTTGGGGTGGTGTCTTGACATTGTATTTTGTATCCCTATCAATCTAGCAGAAGAT
TTTTTTTTTAAATAAAGAAAATGCTCACTCTTGGCTAGGATGTGGTGAAACAAAACTTCCTATATTGTCAGTGGCAGT
ATAAATTGGTATGAATTTTCTAAAAAGACATTTTCCACTTTTTGCACCAGATACCAAATTTGTCTTTCAATAATATATT
CTAAGAAAGCAATAAGAAAAAGGAAGTAATTAGAAATTATGTATAAAGATATTTATAGCATTTTTGTTCATAATATGAA
AACTAGGAATCAAAGTGTCTAAGAATTACAGTTTTAAAATATCACTTAGGCCGGGTGCGGTGGCTCAAGCCTGTAATCC
CAGCACTTTGGAAGGCTGAGGCAGGTGGATCGCCTGAGGTCAGGAGTTCGAGACCAGCCTGGCCAACATGGCAAAACCC
TGTCTCTACTAAAAATACAAAAATCAGCTAGGCATAGTGGCGGGTGCCTGTAGTCCCAGCTACTCAGGAGGCTGAGGCA
GGAGAATAGCTTCAACATGGGAGGCAGAGGTTGAGCCGAGATTGTGCCACTGCACTCCAGCCTGGGCGACAGGGTGAAA

Fig. 6.126

CTCCATGTAAAAAAAAAAAAATCACTTAATATTATGAAAAACTGTTTATGACAAGACATGATGTGAAAATAATCATGGCA
TATATAGCATAATCACAATTTGTTTATGTGTGAACAGAATAACATGTTAACAGAGGTTATCTTTTGCTAATNGGACTAG
AGGTGTTTCTTTTCCTTTTTATTTTTTCTTTTTGTATTTTTCAAATTGTCTAAAAGACTATATATTTTTATAATCAGAA
GAAATATTGCAACCATATTTTGTCCCANTTGAACTATGATTTACTTACGGGAAGTCCTATCCTTGTTTCTTAGTTTCTA
CATTTTAAAATGTCTCATCATTCATTTTGGCTGAAAGTTAAAATGCAATCTCAGTTATTTCACGTTAATTCAATTACAA
GCCCTTCTCTTCCCACAGTATCATTTCATCTTAAACCTTCATACTCAGCCTCCTTTGCAACTCTGGCCTCTCTTGCTTT
CCATTCCTTTTTGTTCTTTCTCTGATTAAAAAAAAATACTAAATTCTGTCTGCTTTTCTTTGACAGCATTAGCCTTTTT
TCTCCTCTGCTCAGAATATAATTTTTGCTATTCAGTTTTTCAAATATTTACCACTGTTCCCTTTGTTTCTTTATCCTGG
TTTTTAATTTTGTAAGGTAGAGGAAGCATTCATGGAATAGTCTGTTCCAAACCTCAGAGCCTCAGTAGTGCTTTTGCAT
TAATTAAAAAGTATGTATTCTTTTTGGGATTTCCCAAAGTATTTTCCCATTATATCAGGAACACATGTGTATATGTGCA
TACATAGGGTATGCATGAGAATGAGTGTATTCACGTGTGCATGTATGCATTCATGTTTGTGTGCATGTTGGTGCATACA
TGTGCAAGTTGGTGTGCACTTGTGAGTGAATACATGTTCCAGTTCTTCCAGAACAGGAACTGTGTCCTTTCCTATATGC
CCTACGCAAGTAGACACTGCAATGATGCTGACTGCCTGTTTGCCTGTCTCTGTATAGCCACCTTTCAGAGCTTGCCATC
TGGATCTCAGACAGTATGCAGAGGAGAGGAATGTTCTAATCCACCCTGGTACCAACAGGCTGGCATCTGTACTTTGAAA
GCTTTGATGAAGAAGATGCAAATTGTGTTGGCTGTGTGGGCTTTTCAGCTGCTTCCTGACTGGGCTAGAGACAGGCAGC
ATAACTTTTAATCTCTCCAAAAGCCTGCCAACTGGCAAAGAGATACATGTATTAGATAAGATGGTGGATCTCGATTTAT
ATATGTATGAATGCAGACTGAATTAAAATGGCACCCTAAGGGAGAAGCCAAGGACCAAATCAGGAGACCCTCTAACTGA
GTCAGAAATCAAGGCCAGGATTTATAGGATGAACATTTTTAAGTGTACATTAGAATGTAAAGTAGGTATTTGTAATTGA
AGTACTATGCTTATTTTATTTCCATAAACCTAAGGTCTGGCTTCGAAGTGGCCTCAGGGTATATCCGTCAGCACTGAGC
CTTGTAAATTTGCCTGCTAAATCAAACCTATGATGAAAAGAACCAGGCAAATAACACTGTCTTGCAGTGTGCAAGTCCC
GTGGCTGTATTATAGAGTGCTCAGCTCAGTGTTTCACAGTGGAGAAGAACGTACGTTGATATGCTTTCTGGGTTTGAGA
GCTCTTCCTTCTTCATCCAGAAGACAGAGCTGGGTAGAGAAAAGGATAACCAGCAAGACAAAGGCTTTATCCCAATATT
ATATGTTTAAAACTCAAAGAGATATGGTGAAAATGGGACTTTATTAAATTTGCCTGATTGGAAACAAACATGCAAATTG
TACAAGATTCCTAAATGTGCCAAAATGGCAAGGAGAGAGCCCTGACGAGCATGGAGAATAGTGAGTAATGCTTATGTCC
TAACAGTGCCCCTTGCCTTCATTGACCTTTGGAAATATTGTGAAAAAGTCAACCTTTTCTATTCTGTCTGTATAGTCTT
ACAGTGTTTCCTCTCTTTTTCTCCCTCTAGGGAGTTATCCAAAGCCCCCTTCACAAGAAATGCTAGCTTTCAGGAATAA
TCAATCAAGCACACCTTTGAGCAAATGTAAGATTTATGTTCATTCTATTTAGATATTTGATTTTGACATTGTATCCTTT
ATTTTGGAANAAAATGAATGTCACCTACATGCAGACAGATGAGGCATTTTATGCTTTTGTTGGGGGAGGATAGGTTTAG
GGGAGCTCTCCCATTTGCAACCCGGCTTTAAACCCCACGTGGCATGAAGAAATCAATTAAACAGACAGAAACTCTTCTG
GGATTGGGAATCTGGCTTCTCATTTAAAAGAATATCCCCATTTTTCTAACCATAATAAATTTTAATTTTCAAGTAAAAG
CCATTACGTCAATTTTAATGTCAAATACATTTTAAAAAGAAGATGCAGACTGTTGAAAAGATGGTGGAAATGATTACAA
CCTAAGCTTGGAGCTTACTGAAGTCAATCAACTTCAACCTGGAGCTTGCTGCAGTTCCGACTGCACTTAGATGGTTTTG
CTTTAGTTTCCCCATTTTAGTGTAGCAGAGGCTGTTTTGTTACCTGATCTTTTTTTGTAGAGAGAATGAAACTGCCTGA
GGGACAATACAGTGCACTGGAGAGGGATGAAATAAAGTCTCAAGAGCTGCTTGTACTATACCACCTACCTCAAACAGCA
GATGTTACAGAACTGCTTTTAAAAAAATGTTGCCTTTCACATGTCATGCTAAAAATATATACCTAAAAAGACCTAAAAA
AAAAAACCTTAAAAGAACTAGAGAAGCAGGCTGTAGTTATACAAAAGCTATATGCAAGATCATGGAAGCAAAAAAAAA
TGCATAAAGACATATTAGAGCTTTCTTAAGTTCCAAGGGAGCTTTTGATAATACATTCAAAACATAAATGGGAAAGTCA
TCAGAGAATTGCATAGTCCCCAGGAGACTGCAGAAGGCTTTGAAATGGATTTAATAACATTGATGGGTCGGATAGGAAG
CCCTTATTCCCTTTGACTTATCATCTTTCTTTTCTTTTTAAAATTCACTTTCAGGAAATAGTTACATGATCAACTCTAC
CTGGCTGACTCAAATTTGGTTCTCGGTTTGAACTCTAGTTATCTGTATATCTTACAGCTGTCCCCTTCAGTTGCTTATC
ATGTGACTTGTCATTCTGACTGGGTTTGAAGCTTACAAAGGTCAAGAAACACATCTTTCATATCTTTGGAATTTCCTCT
GTAATTTTGATACCCTGATTGTGTTTGCAGATGGTGTTTAACAAATGTTGCCTGGCTCACTGGATACTTCCAGATTTTA
AAAAAAGTTAACAGAATGATCTTCAACTCTGCTTCCATTGTTAATATTTATGTGCTATATTCTGATAAACCCGTAGAAG
ACCAGATAAGACAAAAGCAGGAGAAACAAGTTGTAGATACAATAGTGAGCGTGTAAAAGGCATTTAATAATGCCTTGAC
ATGAATAATAAACATACCAGTAATAAAGATACAACAACCTTACGTTTCCATAGATTCTTGATTCCTCTAAAAGCACTTT
CATATAATAAAGGACAGAGGGATAAAGGGAGGAGTAAATATAAATGCAAGGAATACCAAAGGAATGTAGACATGAAAAA
GCAAGAGGACCAAAGCAAGACAAAGAAAATAATAGCCAAGAATAAAGAAATTGAGGGAGAACTTACTAATAACTTGGAA
CAGTTGTTGGCTAAACAGCACACATAGCAGAGTATCAAATAAATATTGACAATGTTGGTGTTCTTGTAGTGAGTAGAAT
ATCCTATAGACAGAATACTCTAGGATATTCTATAGACAGAGTATTCTGTCTATAGGGTATTCTGCCCTGTTTATGTTTT
GTCTTGTTTTCTGCTGAGTTATTAGGGAAAGGAGTATCGTGGATTCCCTCACTTTCTTTCTCTTCCATTTTTATTCGTG
ATGGTTAATATTGATACTAGTATGGCTATCTTTACTCCAGATAGTCAATCCACATCATCAAAAAGATATGGACGTTTGA
GTGATACTCAACTTCAGTAGCTTAGTTCAGTGATTTCACAAAAGCTCAGTTAGGCTTGCTGCTGAGAGCATAAGTGAAT
TTTGCCCTTGTTGTAAGGTTCTAAAAATTTCCTAACCTTAGGAGGCAGGTCTAAAATTATTGTCTATAATGCTGAATAT
AGTAACTTATTATAAAGAAATTCTAAGAAAATAAGACATATCAACTATGTTATAGAACTGATATTAAATCTAGAACTGA
AAAAAATACAGATAGAAAAGTTCTGCCTGTCATGTGCTAGAGGCTACAAGAGATCCCTAAAACACTTTTATTACTGCTT
TGAAGGGATAAGCTCCCTCCAAAAGCATGGATCAACTATTTTAGAGATTTAGAGATTGACACTGCTGTTTTGGCAATAA
TTCTACCTTCATACTTTCAGTTCTGGATCAGCACAGAAAACTCTCTCCTTTGTCAGATTGAAAACCTGTAGCAGGGGGA
CAGCCAAGATGGCCGAATAGGAACAGCTCTGGTCTACAGCTTCCATCAAGCTACCAATGACTTTCTTCACAGAATTGGA
AAAAACTACTTTAAAGTTCATATGGCACCAAAAAAGATCCCGCATTGCCAAGTCAATCCTAAGCCAAAAGAACAAAGCT
GGAGGCATCACACTACCTGACTTCAAACTATACTACAAGGCTACAGTAACCAAAACAGCATGGTACTGCTACCAAAACA

Fig. 6.(27)

GAGATATAGATCAATGGAACAGAACAGAGCCCTCAGAAATAATGCCACATATCTACAACTATCTGATCTTTGACAAATC
TGAGAAAAACAAGCAATGGGAAAGGATTCCCTANTTAATAAATGGTCCTGGGAAAACTGGCTAGCCATATGTAGAAAG
CTGAAACTGGATCCCTTCCTTACACCTTATACAAAAATTAATTCAAGATGGATTAAAGACTTAAACGTTAGACCTAAAA
CCATAAAAACCCTAGAAGAAAACCTAGGCATTACCATTCAGGACATAGGCATGGGCAAGGACTTCATGTCTAAAACACC
AAAAGCAATGGCAACCAAAGCCAAAATTGACAAATGGGATCTAATTAAACTAAAGAGCTTCTGCACAGCAAAAGAAACT
ACCATCAGAGTGAACAAGCAACCTACAGGATGGGAGAAAATTTTCACAATCTATTCATCTGACAAAGGGCTAATATCCA
GAATCTACAATGAACTCNAACAAATTTACAAGAAAAAAACAAACAACCCCATCAAAAAGTGGGCGAAGGACACGAACAG
ACACTTCTCAAAAGAAGACATTTATGCCACCAAAAAAACACATGAAAAAATGCTCACCATCACTGGCCATCAGAGAAAT
GCAAATCAAAACCACAATGAGATACCATCTCACACCAGTTAGAATGGCGATCATTAAAAAGTCAGGAAACAACAGGTGC
TGGAGAGGATGTGGAGAAATAGGAACACTTTTACACTGTTGGTGGGACTGTAAACCAGTTCAACCATTGTGGAAGTCAG
TGTGGCGATTCCTCAGGGATCTAGAACTAGAAATACCATTTGACCCAGCCATCCCATTACTGGGTATATACCCAAAGGA
CTATAAATCATGCTGCTATAAAGACACATGCACACGTATGTTTATTGCGGCTCTATTCACAATAGCAAAGACTTGGAAC
CAACCCAAATGTCCAACAATGATAGACTGGATTAAGAAAATGTGGCACATATACACCATGGAATACTATGCAGCCATAA
AACATGATGAGTTCATGTCCTTTGTAGGGACATGGATGAAATTGGAAATCATCATTCTCAGTAAACTATCGCAAGAACA
AAAAACCAAACACCTCATATTCTTACTCATAGGTGGGAATTGAACAATGAGAACACATGGACACAGGAAGGGGAACATC
ACACTCTGGGGACTGTTGTGGGGTGGGGGAAGCGGGGAGGGATAGTATTAGGAGATATACCTAATGCTAAATGATGAGT
TAATGGGTGCAGCACACCAGCATGGCACATGTATACATATGTAACTAACCTGCACATTGTGCACATGTACCCTAAAACT
TAAAGTTTAATAATAATAAAATTAAATTAAAAAAAAAAAGAAAACCTGTAGCTCTGGTATCATAGTGGCTGTAGTGACT
GGTTGAATGATTTAATCTATTTCAGCCTCAGTTGCCNNAGCTGTTAGAGGAGTTAATTATATCAGTCCTGCCTTATAAT
CATAGCAATAATTCCCATTTCCAAATGCCTGCCATGGGTCAGGTTCTTGCTATGTCTTTGGCACATATTATCTTTAAGT
CTCATCAACTCTGCAAGGAAGGAACAATTGTCATTCACAGTTTACAGCTGAGAAAGCTGAGGCTCAGATTATTTCAGTA
AGCTGCCTGAAGTCATGCAGCTAAGTGGCAAAGCCAGGATATAAACTTCATATGTATGTTCACAAAGTCCCCGCTTAGT
CCTCCATGGAATTTTTAGAGTTATTTAAAATGACATGTGTGAAAGTGTTTTGAAAATAGCAAAGTTCCTTGTAAATGCA
TGTTATTATTATCATACTGATGAATATAAATTACTTAACATCTATTTACCAAGTTCCTTATAGATATTTAGCACTGAGT
CAGTTTTCATTTTGGACAATCTATGGAATTAGTTATTTCTCTAATGTAGTATTACATAAGATGCATTATAAATAAATCT
TAAATATTTTCAAGTGGAAATTTCTTCCATCCTTGGGACCAGGTTCTTCCTTCTTCTCCTTCTTCTTCTTTTTTATTTT
TATTTTTTTGAGACTGGGTCTCTGTCACCCAGTCTGGGATGCAGTGGCACAATCATGGATGGCTCACTGCAGCCTCGAC
CTTTTGGGTTCAAGTGATCCTTTCTCCTCAGCCTCTCCAGTAGCTGGGACCACAGGTATGGCCACCACACCCAGCTAAT
TTTTTTATTTTTCTAGAGATGGTGTCTCACTATGTTGCCTAGGCTGATCTCAAACTCCTGGGCTCAAGTTATCCTGTTT
CAATCTCCCTAAGTGCTGGGATTAGAGGTATGAGCCACCACACCCAGCCTGGGTTTTAGTTTCTTTTTGATCATATTTG
GAGAAAAAAAGAAAAGAAGCAAATTTGCTAATCAAAATTGAGTGAATGTTTCAAGAAACAAAACCAATTAAATGTAGTC
CAACCTTGAGAATCAGCAAGTAAAAACCTCTGAAGCCAAGAGGGCTAACAGGAAAACTGAAGGAGAGGAGAGAAATATA
CCATAAGCATTTTCAAACCTCTGCTTCAAATTCTTGTATTTATAAATGGTCTGGGCCAGCAGTGCAACTCTCCCTGTCT
CGCTCTTTGTTGTTTATTTTTTGGAGTCTTTAATGACCAATCGGGTTGCTGAAATTTACTTGAAGAGTTTATTCTTGAT
TCTGAGGTATAAGATTTTCTGTGTGAAGATGGCTGGGAATCCACACAACTCTCCTAAAATAAGCACCAAGTTTTGGAAA
GAATTTTCTCTTGTGGAAAACATCCATTTCCAAAGAGAGCCATCAGCATGAGATTGCTTTTTTTTCTTTTTAACCGCCC
CCAACCCAAGGAGAAAGCTGAGGGGAGTCAGTCTGTGAAGCAGCCAGGAATCAACTTTCATGACAGTTTTAACATTCAA
GGCAGACTTTTCCCTTGGTCTTTTGGAAGAACTGCTGAAATCTCAATGAAAGTTCATGAAATTCTGTAGAGGAATCAGC
TGAGTCTAGAAATAAGCTGTTCCTTATTGTTTCCTCTGTTTCCTTATATATAAAGAGTGGGTAAAAAGAAGCACCTTGG
AAAGTCATTGTGAGATTAAATGGCATAATGCATGCACATCTCCTGGCACAAACTAATCACCACTGTTGTGTTCTAAGCC
AGTTTCCTAAATACACAGATCCAGTTGTTTTTAAGTCTCAGTGTGAACTGTTTATTCTGTTTGGCCCATGTGGATATC
TAAAGGGTTCACAAAAAATGCTTTCAAATTGATAAAATATGGAGGAAGCCGCTTTTCTAGTCTTCATCAAGGATCTGCGT
TGGGTGGAATAGAATCTTTGTTTGGGTTTGGTAAGAGTTTCATGATGCAGGATTTTATAGAGAGGGAGCTAATGCCATT
GGGTGGCTGATCACCTAGGTGGAATGAATGTGGGGCCACTCATCCATGCATTTTTCTGCAGGTGAGATGGGATAGGTAG
CCCTTGTACAGTTCTTCTGTCAGAGATCTTGGTCACATTTGAGTCTCTGCTGGGCTAAGGCAGAAGCCCTTATAGGAGG
ATAGGACCACTACCTGGCCAGGCTTGGTTTTCTTTAGCTCAGAGCCTGGAATTGGCTAAATTTGAACAGACAAGATTAA
AAAAAACAAGCTGATTATACAAGTGATATTGTAAAGAAAAAGCTAGATACCATAAGAGCTGGATACCAGCCCAGTGTTG
CTGTTTGGATTTGATCATACTCTCTTGAGTACAGGAACAAGAGGGCAGCCTAACATTGTCCCTGAAGCCCTCTGCCCAC
AGCCAGTCAGATCCATGTCCAACCTTAGCAGCTAGGATGCTGGCCATCCCTGTGGCCCAGGCCCCATTTGTACAAGTTC
TGGGACTGGGGTGAAGGTATTCTTGTTATAATGCCTTTTTAACACAATTCTGGCCTTTTGGGAGAGAGAGTCAATGTTT
TACACTCTGGGGANTCAACTTGTGCTCGGATTCACCTTTGGCAAGGGTCCTTTAGTGGAATGGACTCTGCCCAGGGAGT
CAGTGGACTGCTGTTTGCTGGTTGATTTTAGACAAGTTACTTTATGTTTGTGGGCCTCATTTTCCTCTGAGCAAAGACA
TCTCTAACCTGAGTCACAGCACAATCTTTGTGGTCTGACTCTGTCTGGGGCATGGAAAATTGTGTGTGTGTGTGTGTGT
GTGTGTGTGTGTGCATGTGTGTGTCTCCAGTCACTGGTTCTGGGGATGTTCCTCCAAACTGTTCTTGCCTTCTTTCT
GTTATCCAAACTTTTCTGTGCAGAAGAACAAGATTTAAGTTTGAATGGATCATTGTTTCTTTTCGGCTAAACAACTGCT
GATAGTCAGAGGATGACCTATTTCTGAAGCAGACGACCAAGGAGAAATTTATGGATTTCTATTCTTTAGACTTAACCAG
TGTTCCTTCTTGGAACATATGTTATGGAACTTGACTAATCGCCCTGGCAATATGTTGCCAAAGTTTTCCTGGCAATAGA
TCAAAGTCTGTAATATACCAGCACATCAGCTTTGCAGAGCTCAGACAATGAGAAAACAGGTAGGGGTGGGAGAAAGCAC
TTGCAATTAATTTTGGAGTCAGATTTTGATAGAAAAGTAGAAAGAGGATAGGACTAATTGACTTCTGAAAGAATTACAN
GTGGCTGGTGTGCCCCATGACTCACACTGTAATCTAAATACTTTGGGAGGCCAAGGTGGGAGGGTCTCATGAGGCCAGG

Fig. 6.28

GGTTTGAGATCAGCCTGGGGAACATAGTGAGACCCTGTCTCTACAAAAAATAAAAAAAATTAGCCAGGCTTAGTGGCAT
GTGCCTATGATCCCAGCTGCTTGGGAGGTTGAGGTGGGAGGATCACTTGCAACTGGGAGGTTGAGGCTGCAGTGAACCG
TGTTCACACCACTGCACTCCAGCCTGGACAACAGAGCAAGATCCTGCCTCAAAAACAAAAACAAAAACAAAAAAAAAGA
AAGACAAAAAAGAATTGCAAGCGGCCAATACATAAGAGAAGATGCCTAACACCTAACCCCCCAATTAGCATTGTGATTA
TAAAGATAACAATGCTATCATTTCCCCACATCATTTTGGCAGAAATGTGAATGGATGGTTAAACTCGGTGTGCCTGTGA
GTTTGATGAAATGGATGTGCTCATACAACTACCTGATACAACCTTTTGGAGGGCAGGTGGCTGATACTTACTGAAATGT
GAAATGTATAATCTTCTTGCCCAGAAATTCTGGGTCTAGGACTTATCCTAAGAAGACAACTATACAAATGTAAAAATAC
ATTTATGTAGTATGTTTGCAAAAGCATATTCATGGGAAAATGAGAAATAACTTTAATGTTTATCAATAGAGAACTGGT
ATAGTAAATTATGATAAATACCTACTGTGAAATCCTGCATAGTCAATAAAATGATGGTGTAAAGCTTCATATATTAATG
TGAAAAATTATTTAATGGTACAAAACAGGTTATGAAACACAACAATCACATTTCTATACAGTCATATTACTAGAAATAT
GGGAAGTTGTTAATTTAAATCTGAACAGTTAGAATTTCAGGCTACCTTTACTTCCTTTGCTATTTAACTGTTTCCTCTC
CCACCTATCAACTCTATGTCCTTAGGGAAACTTATTTAACCTTTCTCACTCTTGGTGAAAATGGAGATAATACCAAACT
CTTAGAGGTTGTTGTGAGAATCAAGCAATAAAATACATGTCAAGCACCTAGTAAAAAATGTATTTTGATTTTTTTTTGT
CATACACAGTTTCCTTTTTTTCTTTCATTATGTGAGTACAAACAGCTGTGTTCCTATGCCCAGATTCAAAGAGAGAAAG
CTAAGTGGGCTTTTGAATAACTTCCACTTATTTTAATGCAGGGAAAGCTCTAGTTCCAAATATGTGGAACAGTATTTTC
CTAAGGCTGCAATGTGTCAGAAAAAGACCATATTGAGTCATTGTTTTCTGAAGCCAAGACAGGAGATTGAGAGACGGAT
GCTGATGGGCAGCCTAAAATAATATTTCATTCTTGTCATCCTTAGGCAGTTTAAGACCAAGTCATTTTGGATAGATCTA
CAGTTTCCCTCTCGGTTTGGAAGAACAAAGCTTTTGTTATTTATGTTCTTAAACAACAGCGCTTTGTCCTATACTCAGG
AGCGTGCAAAGCAAACAGAAGATTTCCTGAACGGCCATCCCATTTATGGTGAGGAGTCAGTCCAAGAGGTAAGTAGACA
TACTCAGCTGCAACCATCTGCAGAGGGCCCACATTGGCAGCAAAAGGAAATAGCCAAGACTCACAGGAGCACAACAGCC
AGTCAGGTTTGGGATTCACTTCTCTGATACTGTGCCAAAGTTGGTGGACTCAGCCATTCTGAAACTCACTGTTCACTTG
GGGCCTGCTTTGCACAACAAAACAAATAGCCCTGTTTTGCTTTCCATGTCTGAGGCAGAAAAATAAAAATGGCAATATT
TTGAGTGTTTTTACATTGGGAATTTCTGGTCCATAGATAATTATTTCAGATACCCCTGTGTAATCTTTTCAGAGCTGTT
GAAAACTGTGGAATAGGGGATAATTAGGGCTCAAGAGATTTCATTAATGGTTAAAGGATCATTAGAAGGACACGTACTG
TATCCCTCTTCTTATTTCTCTTCCTGCACTAAAACAACTCCTGGCTTGCTACCATACTTCCGCACCCATGTGCAATTTT
CACTTAGCAAAAGGTCAAGTCTAAGTAGAATCTATGAAGTTGGGATTGATTCTGATTGGTAATAATGCTAGCTAGCAAG
CATTGAAAATTTGTACCAGGTTTTCTGTTAAGTAGTCTGCATGCACTATCTCAATGATTCTTAAGGAGTGGTCCATAGA
TCACTGGCTTTACAAACATTGACGCATGGTGGTGGGTGTGGGCAATGAAAAGGCAGATTCCTAGATTCTACTCTAGATC
CATGGGATCAGCATCCTGTAGTGGGAGCCAGGGATCTACCATTTTAGCAGGTGCCTTGGGTCATCATCCTTATGCACAT
GACATTCGAGAGCCACTGTGTTATTTCCTAGTGCAACTGTGACTCAGTGTAATCTGCTTTCTTTCCACTCCTCTGATTT
CTGTGTGTAAATTTTCATGACAAAAGTTAGACAAAATACCATGGACTGAAGTTAGATATAGAGCAACTCATGTCTCTTT
TAGTTGCTGGTGATTGCAAATNTATCTCCATGGCCAAATTGCTTTTGAGGCACTATATGTGATATTTATCTGTATTGTG
GGAAGGTTAAAGAAGTGAGAACTCTTTCCTTGCTTAGTGGTGGCCTGTGCTCTGGAGGTAGAGAGGAAGACACAGGGGC
CATGGAGGTGGGACTTACAGGTGTGGTACAGGTTGTATAATCATGATGGTGACCCTGCATGGAGAAGGGAAAGCTTGAC
CTTTTCCTTGGCTCAGGGCTATGCAAATAGGGCTGGCCCATTTCTGAGAGGGGAAGGTAGCTGATATGCAGGTGTGATT
CCCTAGGGCCCAGAAAGACCTGCCTGCCTTCTGCCTTTGTTGTCATGCTTCATGAGGCCTGAAATGTTCACTGGTGGTT
ATTTCTCTGGTTCTCAGCTTTAGCTCTAGAAAGCCCCTATTGAAATGACATGCCACTTGGAAGATAGCAGGACCATTTA
CTTATATTTTCACAGACTGCTTTAATCTGCTACTCTGGGGATGGCACACAAAAAGATTTAGTTGATGGGAGGGAGGTTA
GGCCCCTTTGTGGGCCACAAAGAAGAATCTGGGGAGCCCAGGGAGACTATTCTGGGGGTAGAAGTGAGGAGGAAAGGCT
CTAAAGACAAACTGGACCTATGTCACAGTTCCGAGGGCTGTCCTCCAGAATACATTGTTTTCCTGAAATTCTCCAGCCC
CTTCCATCATTTTCCTCTCAGTGAATGTCCAGTGCTGAATAACTGCCCCCTTAGTCACAGGACTGGACTGCAGCAGTGC
TGCAGGTGGTGAGGCTCAGTGGCACAAGTGGCTCTGGGAGGGAATCTTGATGTCGGATTCTGTAGCTGCACCAGCAGAG
GGGGAAGAGGGAGATAATTACCCACCTCTGAGTCTGAGATCCCCCTACCCCCAGTGCATTCTTCTGCCAGGAGCAGGAT
CATTAGAATAAGTGAGACTTAGCTTAGCTCATTCAACTCCTTGCCAGGCCCCATGCAAAGCTTTCAAACTTTCAAATAT
ACGATCATTTCTAGAGACTATGTTGGGATCCCCTGCATTTCTTTATCCATTTGTTGAGAAGGACCAGAGATGATGCCTA
ACTTTAGCCAAGAGTTTGTCTGTGGGTCCGATAAGCCTCACATTTGATTTTATTGGAATTTTAATCTTGCAGAAAGTAC
CCTATGTTTCAATTTTAAAGCATTTTTTTGTTAAACTGAAAACATCCCTCAATTTTTCCAATGTTCGTTTGTCCTCTA
GTGCTAATTTATGTGGTAAGTGGTACTGGTTCATTAATTTACTCAGGAGGGTGTAACCACCTTTCATGGAGAAGGGGTG
GCTAGGAAGGGGTTTCTAGTGAAGGAATTCATTTTTCTTGGTCTTCATGGTGGGTGCTGGGGAAGGGTGTGCAGTCAGA
GGGGCTGCATTTGCAGAAACATGGCTCTGTGTGTGAGCCTGGGTTCTCAGGAATAGGAAGCAGGTAGGTGCAGTGGGTG
GGTATTCATGTGACAGTGGAGGAAGATAAGGACAAAGATCATGCATGAGTAGTGAATGAATGAATGAATGAATGAATGA
ATGAATGAATGAATGATTGTGTATAGAAGTCCATACTCCTTCTCTGGGGTGGCTATTCCTTCACCAAGCAGACTCTGTT
CTTTCTTCTGCTGCTTCTTAGTGAGCACGTCTAAGTCTCAGTTGATATTCTCTTGCTCTGAGAAATTTCTCATCAATGG
GAGGAGAAAATATAATTCGCTTCAACATAGCTCATATTTAAGCTGAGAATTCAGCATGAATTCCAGACATGGTTCATGT
ATTTTGGATAATCAGCATAGCTGTTCATGATCGGTAACCCTCTTTTTTCTCCTCCTTCAAATCGTTTTTGGTTAGGTTA
CCATGACTGAAGATTAATGACTTCCATTATTTTTTTTCCCTCATGCAGGAATGTTTAAACTAGTCTAAACTTTGTACCA
ACTATCATATGAATCATGTCTACTACTGTTACCCCTTGTGTGTCATGTCCTGGGTTAGTGTCCTTGCATGACACAGCAA
AATACAGGGCAGGGTTAAAAGTGTCAATTGAGAACCAGGCAAAAAACTGATGATTAATAGTGACCAACACACTTCACTG
TGCTGTTATCTTAGAGGCCTTAAGGCAAAATCTTACTTACAAATATTAGTTGAAATGCAATATGTGATGTTAGTAGACA
CATTTCACCACATCTGGCAGTTCATTAATTCACCTTCATTTTTTTTTTCTTTTCTTCTTTTTTTAATCTTTTTTTTT

Fig. 6.29

ATACTTTAAGTACTAGGGTACATGTGCACAATGTGCAGATTTGTTACATAGGCATACATGTGCCATGTTGGTTTGCTGC
ACCCATCAACTCGTCATTTATATTAGGTATTTCTCCTAATGCTATCCCTCCCTCAGCCCCCT CCACTGACAGGCCCT
CGTGTGTGATGTTCCCTGCCCTGTGTCCAAGTGTTCTCATTGTTCAGTTCCCACCTATGAGTGAGAACATGCGGTGTTT
GGTTTTCTGTCCTTGTGATAGTTTGCTGAGAATGATGGTTTCCAGCTTCATCCATCTCCCTGCAAAGGACATGATCTCA
TCCTTTTTTATGGCTGCATAGTATTCCATGGAATTCACCTTCATTTTCAATATTGTGTATATTTATTGCAGTGAGCTTA
ATCCTAATAAAAACAATTTTATTTCTATTTATTTATGTTTTTCAATTTTTTCTTTGAGACAGGATCTCACTCTGTCAC
TGAGGCTGGAGTGCAATAGCACAACCATAGCTCACTGCAGCCTCCAACTCCTGGACTTAAGTGATCCTCCCACCTTGGC
CTCCCAAGTAGCTGGGACTACAGGTGTGTGCTACCATGCCCAGCTATTTATTTATTTGTTTCTCTTTTTTGCAGAGATG
GGGTCTTGCTGTGTTGCTCAGGGTGGTCTCAAACTCCTGGATTCAAGTGATCCTTGGCCTTCTAAAGGGCTGGGATTAC
TAAAGGGGCGAGCCACCATTTCTAGCTGACAATTTTCTTTTTTTTTTTTTTTTAATTATACTTTAAGTTTTAGGGTACA
TGTGCACATTGTGCAGGTTAGTTACATATGTATACATGTGCCATGCTGGTGCGCTGCACCCACTAACGCGTCATCTAGC
ATTAGGTATATCTCCCAATGCTATCCCTCCNGACAATTTTCTTTTAATGAGCAGTCACCATATAATAGGCTCAGTTCTA
AGCATGTATTTGCCCATTTAATCTTCACACCAGCCTAGGAGGTAGTTACTGTGTGTGGCACCCTTTTATATAGGAGGAA
ACTGAGGCATAATGCTGTTAAGTAGCTTGCTCAGGGTCTAACAATTAAGAGTCAGAGCTGGGATGTGAACCCAGGTGGC
CTGACTCCAGAGTTTCTACCAACCACCATGTTATACTGCTTTACATGTTTAAAGCAAAGATATGGTTTTAGCATCAAAT
ATTAAGAATGCACTCCCCACATTTTTCTTATTAAATGTAATTGCCAGTTTTTGTATATGTCATTGTCCTAATGCTTTCG
AGAAACTTAGACAAAGAGCAAGACCACAGATAAATGGATCCTTCTGTTCAGGTCTCATTACCTAGAAGAGTTTTGACTG
CAATATATGAGTACTAAAAGTTGATGGTTTATGCTAATTTTAAGTGTAATATATTTTAGAATTTTGTCACATGCATTAT
TANTATGATTTCATATTCATGGCCTTAGGAAGATTAATTTAAACAATAACAACAAGAACAACAACAACAACAAAATACA
ACAAAAAATTTCCCCCATGTGCCAAGAGCAAATTTTGAGGTCCATTTATCCAGATAAAGTGTTTTGTTATCTGAACCAA
GAACATGAACTTTATCTTTATAGTGACCACAGACTCCCATCTCTAGTATCATGATTTTTAATTTGAATTAAAGCATTTT
TTTTTGCTTTGTTAAGATGAGGCAGGCCTTCTTGCTGACATTTTAAAAAGCAACTATTTTTCTTTCAGTTTACACTATG
AGGCATTGGCTCCAACTGTCAGCATTGAAACTGTCAGCAGTTCCCTACCAGGAAACTGGTTCCAAGGTCTAGGGTTTCC
TTAGGTAGAGGCTGGCACTGTGAAAATAATGGGGCTCTTTATCCATGTCACCTGGAATGGAGTTAATACCCTGCCAGTC
TTAGTTGATTTGACATACTAACAGGATGGGTCTGAACGTTTTCTATAGTTTACTCATGAGTGACTTTCTTTGGCTTACG
TAAATGGCAAGGCCAGACAAATTAGCTTATGGACCTAGCAATCATTCTTGGCCCAGATTTTGAGACACTTTTCAATCAA
CCATAGTTGCTCTAATACCTGAGATTTGCTGACAGTGCTTGGTTCAGAAAAAGGTTCAGTTTCCTGAGCAATTTTTCTT
TTATTGGGATCATCTTAATTCTTGTTTGCGGGGTTAAGATGAAGGAAATATGAGCAAGGACTGCACTCAGCTATTTGGG
TGACCCTTGTATACCATGAGCTTCTTAGATAGGGCCTGATGTGATCACCAGAAAACATTAATTGATCGTGATGACAGGA
GATAGTCTCTCTAGCCAGAACCTGCTAATACAAGTCCTGATGAATTGAGAATGATGCCTGAAGGAAGCAGACTGACGTG
GTGCATTAGTAATTTTAGGCAAAAGAAGATAATGGTACTAGTATGTATATTTTTTAGTTTCCTTTTCCATTGCTTTGTT
TTGCACAGGCTGAAGAAAATAAATGTAAACAGCATATTATGGTGGCTCAGGGTGGATAATAATGGACATCACTTCCTT
TGTTTCAGTGTGAGGTTGCCCCTGCTATGTGACAGCTCCAAGGACTAAAGATTTCAATCCCCAGAAAAATGTCGAGTCC
CAGTAACATGTTTCAGGTTATCATGATTATTATGATTATAGGAGGGGAAGAGCAGTGCTGGTCTTTTAGAAAGTTCTCA
TCATGAATGTGTTCTGGAGTGAACATCACTTACTAACAGATGAGCAGCTTGAAGTTGAGTCAAACAAAACTTTTAGTGT
TTGTAAGGGTCAGGGAGCCAGGGGACAGTCTGTAACTCAGTTGTATATTGACACAGAGAATGTACAAAAGCTGTGAAAG
CTTCCACTTGAATGACTGCGGATGGTTGCTGGTGACGGTCTTGGACAGTAAGGGTTTTCTTCGGAGTTGTAGGAGGTGA
AGTCTTCCTATGGGAAATTTCTGGACAAAAATACAAATGAAATGACTTGCAGGCCTCAGTTTAGAGTATTGTTGGCTTT
GTCTGTCAACAAATGGAGATTTGAACATGGGAGTTCAAGGGGATTTAATGAAATTTTATTAAGGAGATGAGAAGCAGG
GAGTCTGTGTTGAAAATTCAATAAAGGGCTTGTTTTCCATCTCAGCCTGGATAATCTATGTTATCTCTGAGTAAAGGGG
GTAACAATTCTAACAACCTGGCTTCCTTAGAAGTTTCCATTCTCATATAGTCACCGAAGGCAGCAGCACTGTCAAATAA
ACAAAGGTTTAATTAAATAAAACTATTTAAACAGAGCAGAAATATTCTTCCCTGGCTAGTCACAGATTGGACAATTCA
AAGAACAAACCCTGGGGGGAAATTGCCAATGGATTACTTTTTCTGTTTTCTGTCTATTGCAACGTTTTTCTTTCTGGTG
TCAAATCTCAAGTTGAATTCAGTCAATTATCTACAGCCAAAAAAAGTGCATAAATGTCTCTTCTGTTACTGTTTATATG
TCACCACTAAATAAAGCAAAATTTTCTTCTCAGCTTCTTGCCTTAGGATTTTATAAGTCCAACAAAACAAATAAAATAT
TATGTATATTCTATCGTCACTATGAAAGCATAAGGATTGATTTAGTTATGTACAAGTTTATTGCCAAAGTTTTTCTTCG
TTGCTAATGTTACACTTGCTACAAAATGTATTAAAGAAACAGACAATTTGCTAAGGATTTGGAAGGATTTGTCATTGGG
TTAAGTACATTAAGTATCTAAGGGGTGTGGTGTTCTGGTTATGTGTATGTCAGTTTCACATATTTTTTTGCTTTCTTAT
TTTAGTTGCCTCTATAATCATTTTGACTTTAAAATGTTTTCTGCAGATCCTTTAATAACTGCAAATGTAGAAGTATGGT
GTAACAAGTAATTGGTATGACTAACACTAAAATGTAATGGGAAATAAGGATACTATTGTAAAGAAAACAAGAAAAACCT
GGGGTAGGGGAGCAGTATTGATTCTCTCTTAGGATTCCTAAGATTCTCTGTCCCAACCCTTCTACCATGGAACATTCTT
ATGTGGTCTAAGTGTCAAAGACCAGAGGAACTGGGCAGTAACTTATCTTCTCAATTTTCTCTCTGAACATAGATATTTT
CTTTAAGATACGAAAAACTTTTAATTGTGCTCCTGAAACCCATCCCTGTCCTGTCTCAGCCCCGTTGACTCTTCTTTCT
GTGGGTGGGTGAAAAGCCTACCCATCTGCAAAGGTAGCTCTGAAACTGTTCTGGAAAATCCTGTATTTTCCTCCACAAA
TGATCGTTTTAGTTTCAAGTTTATTTCAGGTACATTAATTCTCCCCCTCCTCAGACTTCATAACAAATGATCCTGCACA
CGATTAGAATAGGAAAATGTAAAATAAAATCGAAGCATATCTAGTTGCCTCAGCGACTTTATGCTTATCACTTTCAGTC
TGCATTATTCTACTAAAAATAAAAAGAAAGATGAAAATTACCTCAGGCGTTTGCTGCCGTGCCTGCCCTTTGGTTTCTG
GGACGGCTCGGGTCCCGTAGCGCCGGCACAGCTGAGATTGCCAAGCCGGGAAGAGACCTTGCTCCAGGTGTAGCTGCGT
TTTCCCCAGATCACCTGTCCTTTTCCCCTCCGACAAGGAAGCTGTGATTTTTCTCTGGCCTTTAGAGGCAAAGTGATTC
CAGATAAGTAGATTAATGTGTAGAATATCTCATCTGTGTTGTTCCAGTGCAGCCCTTTCAGCTTTCCAGAGCCAGTTAG

Fig. 6.30

ACTTGTTATGAGGAGCTAAGTGATTGGCTGGCTCTGGAGCTCAGTTTCATAGATTATAGCCCAGCGTACGAGAAGCACG
AGTCCTATAGTTGGCGTACCCTGAGGCCTGCCAGTTCCTGCCTTAATGCATATGTAGTCGTAATTGAGTTCTGACACGG
CCTTGGATGTTTCTGTCCTAAATAGCTGACATTGCATCTTCAAGACTGTGTGAGTAATCCTGATATTTTTTTTTAAGC
TCAGTAAATTAATTACATGCCCTGGGAGGGAGTGATTGTAAGTAGAAAATACTGAACTAGCAGATGATTCGTTTTTAAG
GTGCTATACTATGTGTATCAAGTTCAAGACGATGAATCTTAAAGCTTCTAAGAACTGGCAGGGTTATTCCAGCTTTGTG
CCATGAATCACAGTCAAGCTGCATTTTGAAGGAGGCTGTTTGATGCATTTGCTAGCTCTGTTTGTTTTATGGGGTCAGT
AAAGTGGCAGAGGTCCAACAGGAGCAGGTTAAAGCAGGATGCTGGGATCAAAGCTTAGAGAGCACTTGAGTCAGGCAAG
TTTTAAGTTTTCCCACCCCCAAGCATCTCAGTCCAAAACTGAGAGCAAGCAGCAAATATTATAATAAATGCTTTGGGGA
CAGGGGTACACAGCAGATAGGGCACAGTAACAGGAGAAATGTAAAATGATGGCAGCAATACTTTTGTTCACTGTAATCT
GCAGCCAATTGAAGACATACACTATGAATAACTAAAACATTTTATATGAACAAAAATGCTCTTCAGTGGTTCTGTTTA
TGTGGTAGAGGGCTGAATGAAAAACCATGCGCTTGTTGTAAAAAAGCCTTATAAAAAGTACATTAAACACATACAGACA
CAACCATAACAGAAGAAAGTATGTGGATTGGAATTTGTGATTGGAGCAGATCAAATTAAGCCAGGGAAGCCGTTATTAG
GTTTGTATGATTGCTGGGGGGTAACTTCTGTTGCTGACAAGGTTTAGGATAAAGCTGGAGCAGATTGAAGTGGAAAACC
AGAAAACATCAGCATTTCATTACCTTCTATAGCATACACTGCAGGGTAGAATTAATACTGAGTATAGACTGGTAAATGT
GAGCAGTTTACTGTTTGCTTTTAAATCATTATTGATTTCCCCTAGCCTATCATAAAAAATAATAGGGCTTTTGCCTATG
AAATTAGTGCTTAGAAATATTTTTCTTCCTCCCAAATAATTTTTATACTTTTTCTCAATACAGCACAAAGGTAGGTCAT
TAAAAATAAAGGGGTTCCTTTTCAAGTTGCTTTTTGTCTAATTTTTCCTCTTTAGACCTGTAGATACAAATGTATGTAT
TTGTGCTATGTATAACTCTCAAGCATAAATCATTTGAACAGTATTTAAAATCACAGGCTCCTGTGGCAAATATAAACTT
TTAATAGCTATAGTTGGCAATTACTTGCCAATTCCTATAAAAATAACATTAGTGGCTTATTTTTGATTGCACCTAAACA
ACTGGCATGATTTAGCCAGTAGGAGAGAAATATTAGTTGTGTTTTGCATAATTTTGTGTTTAGATCACACTGGAAATAC
AAAGTTTTGTTGTTAAAAATATTTTTGCTTTCTGAAATATTATCCCCTTTCAGATCACACCAATGAATGAAGTTTGTAG
AAAGAAAGAAAAGTAGCCAACGTAGACTCCTTTTCTGTATCAATCAAATATATGCAAAATACATAGATTTTTAAAAATG
TAATTTTAATACATTCCTTTAGAAACACATTTACTTCATGAAGAAACAGTATAATGAGTTCATTTATTGACCCAGAATA
GTGAGTTGATTTATTGAGTTTCTGTAGCCATAGACACGAATAGTAATGGTTGGCTCATTCTTAGCTATACATTCCTAAC
TGACTGTATTAGTGGGAGAAAGGAGTGCATCTATAAAATAAATATAATCCCATCCCTCAAGGTGGTCTGGAGCCCATCT
AAGAGTAAGAAGTAGTAGAGTTGAAGCTGCTTTATCTGAATCAGCTCCTGACTTCAACTCAGCTCCTCTTTTTCCTTAG
GTCCATGTGGCCCACTTGGTGTAGTATTCACATCTCCTTCCACCTTTTTATGCCTTCATTGTTTACATTACCTTGCTTG
GGCTCTTATTGAGATGAATCACATAAAAATGCTTAATTATCAAACATTAATCAGCTGCCTATATAATTCAGAGGATGTT
TAAAACCAAGGCTCAAGGAAATTCTGGTGGGTGTATACTAGGAGTATTTACGTCTTGCATCGGTACTTTCCTCTGGGAC
TTCCATCAGTTCAGTTCTTCCTGAGATGCCAGAGTCATATCTCTTACTTGTGAAAGAACAGAGCTTTAAGAAATGGAGT
CTAGAGGTGCCAGGTGCCCAGTGGACAGTGGGCTGGGGGCAAGGCATGGTGGGGAAAGCAAAAAAAATCTCCCAAACAG
CAATAGTTGATCTTTCTTCTATCCACTCCTCTCAATTTTCTAAAACCATTTTTGTCTAACTGTGGAAGTTCTTTTGCAG
ATAAGGTTCTGTAAAACTATGCATATCTGCCATAGACAGATGGATTTGACGAAAGATGTATCCAAAAAGGAATGTATCA
CATCATGAACTTGCTAAGTGTTCATGAATACACACTGGCATTTGGAGACTATTAACACTACCTACTGAAGCAAAGACAT
AAATCCAAATTGAAGAAAATATAATTTTTTGATTGAATTACATTTTCCAGTGGGTTTTTTTTTTTTTTGGTGAATTTTGT
TTTTGGAAAAATTTGCTCTTCCCTCCAACGTTTTTCCTGTGTTATATATAGGACTGATTTGATTTCTTCAGCTTGCCCA
AGAATTTAATAATTCTTACTTTGTGTTTTCAAAAGAGTTGCTGTCTACCTTGAGCATGTTTTTAAAAAAGCAGAACAAA
ACGAATGAAACAAATGTCCCTCTTCCCACAGAAAAAGCACACCACCAAGGAGTTAAATGCCCTACATTTCTTTAAGTCC
CTCCTTTTGTGGAGCTAGACACTGGTAGAAGAGGAGCTTTCATTTAATTTCAAGACAATCAGTGATTCCAACTTAACTA
TAACTGTGTTCCTCTAATATCTGATTTCAAGAAGCAGAACATTTTGGTGAATTAATCTTAGAGTCAACGGGACCACGCT
CAGGCCATGAAACGTTTTCTAAGCCTCAGTCTCTATGTCTTTAAAATGAAAATAATGATATATGTTCTGGTATTTTACT
AGATTGGTGAATATCCACATCACAATGAGAAAGTGCTTGTCAAAAGAACATTGTAATGTGTAATTTGTAATGTGCTGTA
CATGTACACTATTATTATGACTGTAGCTCATCACGCTAGGGTTAGGACTCTTTACTTCTAAAACATATTCCCAGTAATG
GACAAAACTTTTGAAGCAAAGAAAATCTTCACTGTTTGATCCTAATGTTATGAAGGCTTTTGGACCTTACATTTGTTTA
AGCTCCCATTGAAGCTCCCATTGGAGCTTCAATGCTGATCCATCTATTACTTGAGTATTAAAAATACCGATAGGTTTAC
TGTGATAAACGAATGTGGCATTGTATGTGAAAACATATTTAGTAAACTTCCATGTGCCATAGTCGTATAAATATTACAT
ATTGCAACAATTATCAGTATATTAATAAAAATTCTTTGCAAATTTTCAATTTTTAAAATGGAAAGTATCAGATATATTT
CTTATTGATTGGATTGACTAACTTTCTAAGCTATGTTTGCTTCCCTCAAACAGGATGAATGTTCCTGTTGGTTAAGCTT
TCTTTCCACTTAGATACAGCACTAAGCCAATAGTTAGATAAGCATTCCTTCACAGCCTACATTTGGAGCTGCCAATGAC
GAAGTTTTAGAGGACATATTTTCCTCACAGGAAAAAGTGGGTTAGGAAATTTAGACTGACAGATGTTCTTGGGTTTTTT
TTTTTTTTTTAATTCCTGTCTTGACTCTCATTATTAAATTTTGCTAAGGAAATAATTATGTAGGTTTTGAGGTGATGCT
TATTCCTAGTAGTCTTTTCATCTCAGGGATGCAATGAATGGTCAAAATGACCTTCTGAATGATTTGAAAGATCAATTAG
CAGTTTTGAATCCCAAATTTTTAGGTGGTTCTGCTTCAGAAAATCATTATGCTTTTTGGAATAATGTCCATAGCTGCAT
CCTACATTTCAGTGGTTTCAGCTCACTGCTGTTATAGTTTGATGATTTCCTAACAGCAATATTGGTTATGCTAAAGCAG
TTCCCCATTTCACCTGTTGAACCCTTTTTAAAAGATAGAAGAAATTATAGAGGAATCACAATAAGTAAAACGTATTAAA
ATGGAGTGGATTATCTCCACTTTTATCTCACACAGCTCACCCAGAAATTCATGAGAGAACTTTCTAGGAATGAAACAAT
TTCATTTGTAGTAGTATTTGAAAACTGGATCTAGGGCCATTGACCTGACTTTTTTGTGCCTTTGGTGATTGGATAAGAA
CACTTCTTCAGTAATTTAAAACTATAGTGAAATAATGTTTTTTTTTAACTTCTCAATAGGAATTTATTTATTCAGCAAA
AATCAGGAGTTAGGTGCTAGAAACACAAAGATGAACAATACATGGTTTCCTCAAGGAGCTTATAACCTACTAGACATTT
ATTTCATGTTGGCAGAACTTTTAGGATAATTCTCAAAGAAAAAGGGTTATTATGAGGTTGCTACTTTTCTCCTCAAAAT

Fig. 6.37

ATTTTCTATGTTAATAATGAAGGAATGACCAATCTGTAGTATATGCAAAAAGTACTGGGTAGAAATATATTAATTTTCT
TGGCTGGGTGTGGTGGCTCACATCTGTGGTCCCAGCTACTTGGGATGCTGAGGTGGAGGATCACTTAAGCCTGTCAGT
TCCATGCTGCAGTTGAGTCATGATTATATCACTGCATTCCAGCCTGGGCAGGCAACAGAGTGAAACTCTGTCCCCCACC
CACCCCCAGAAAAGAAACATAAAAATTTTCTTATAAAATTTTACTTTTTAGAGTCTCCAGCCTTATTTAATTCAGTTAC
CATATTTGACAAATAAATGGTGGAACCAAGATGTTACCAGGTTTAAGTTTCATATACAGTAGAACTGTGACAGGAACCT
AGAGTACCTGGAACTAGAATCCAGATCTCTGCCCTTTCAGTTTAGGATGTACTGACAATATATATTGCTACTTAAAATT
GCTAAAACAAAATTTATAAGCATCTATATATTTTGCAGCTAGGACAATTATCTACAAACATGATATTTAATGGAAGATA
TGGTAATAACATCTGAGATATACAATTATGTTATAAAATCTAAAATCAACAAGAAAGGAATAAAGTTGTACCATTCCAG
GAAATACATTTCCAGAGCTTTAGATATCCTTATTAGATTCTACATGTTAGTTTTGGTGATGTTAACTGCCATAACATAT
AAAATCTGAAATCTTGTTGACTTAACTGAGAAGTTTATTTCTCACTCAATCAAAGCCTAAAGTGAGTATTCTTGATGGG
CAGATTCTTCTCATTCATTCAAGCAGTGTTCTTGTGACTCCACTCTTANCACCTTGTTGTCACNACCAGCTTCCTGGTG
TCTGTGCTTTGGCAAAGGAGAAAACTCATAGAAGTCTGCTCACCTTCTATTGGCCAGAGCTTGGTCACATGGCCCCATA
TAGTGAAAGGGAAGCTGGGGCTATAGTCCTATTTGTGTCTGGGAAGAATAAAAAGTTGGTTTGGTGATTGTCTTAGTTC
AGGCTGCTGTAACAAAGTATCATCAACTGGGTGTCTTATAAACAACAGAAATTTATTTTTTTTTTACAGTTCTGGAGGC
TAGAATTCTGAGATTAGTGTGCCAGCCTGGTCAGGTTCTGGTGAGGGCTGTCTTTTGGGTTGCAAGTGGCTGACTTCTC
CTATTATCTTCACATGGCAGAAAGAGGGTGAGCTAGCTCTCTGGCTTCTTTTTGTAAAGGCACGAACCCCATTCCTGAT
GGCTCCACTCTCATGACCTAATTATCTTCCAAAGANACCATCTCCAAGCACCAACACATTGGGAATTAGATCTCAGCAT
ATGAATTTTGGGACGATATGAACATTCAGTCNACAACAATGATCCACTAAGCTATTTCTGCCATACCTTTTTTTCTTTT
CTCTTTTCTTTCCTTACTGTTCTTCAGTATGTCTATGTAGAATCTATGCCTTGTAACCAATAAGGTAATGAAAAAAATT
ATAATATTTACCATCTGGAAGAAATTAGGAAAATGATTTTACTTTTAAATTCTTGATCCATATGTTAAAAAATTTCCAA
GGCTATTAAAATATCACTGAACATTGTGATTATAGAGATTGCTATGATTTAATACTTATGTCTTATAGTGAAAAAGTAG
TCCTGGGATATTTTTCTCTCTTTACCTCACCCATCCTCTTCTATGTCAGGTATTTGAATCCCTTGCTTTGTAGTTTTAT
AAAAAGNTGGGGAGAAAATGAACAATTGTCAAGGAAGATGAAATGGCTAATCAAAATTCATTCATTCTCCATAGTTCCT
TGGGTATTTTATAAACTTTGCAGTAAATGCTAACTTCTTATTGGGGAAAACTGCTATAAAGTAAGTGTACAGGTAGGTT
TTGGAGAAATTTTTCTTGCATGGAGTTGAGCAAATGGTGCATCTAACATAAGCTTGGTTTATAGTTTCTGTTTTTCAGA
AGCTAGAAGATTTTTCTCCACTCTGAACTTCTAGGGATCAACAAAAGTATTTATATCACAAATAAAAAAAAACACAGTT
ACCTCTCAGTAAACAATTTTTTTTCAGATTATTCTATTTAAAAAATCTCTCCAAATCTGTTAATTTTCTGTTAATAAAA
CATCAGTTTCAATAAAAGTCATAAGCCTGTCAAACCAATTTTAGTCCTTTATCTTGGATATAGTAGGTTAAAATATTTT
TGTTGGGTGTTAAGCCAATAATAAACTCAGCTATTTTAACAACCAAATTATTTTCCTCCTATAAACCAAATTTACAATC
AAGCTACTTAAGAAATAAAGACAACAAATAGAAACTGTTTTAATCTTCATATCCTGACCTAAAAAATAGAAGCACGAAC
TCATGTCACATTCTCATATTTATCTGATTAGACTAGGAATGCCTAAAAAGAATTTTCCCATAACTCCATTTACTTGTTG
TTTATTTCCCTAGCTCATTCCAAAAGCAATTTAAAATACAACACCAAAAGAGTAAAATATCCTCAATCTGACATCCTAG
CAATCTTTTTATTTTGGTGAAACTGAACAATAATAATAGGCACTTGCATTCTTCACCCTGAGGCACTGAAAACACTGAT
ATGTCTCAGTTTTAAGATTCTGAAGATTATATTCTATTTAATAGATATTTTAAGTATATGTATTATATTTCTAGTCTTT
GAACTAAGGCAGTCCACATATAGGTATAAAGTAATGCCTCAGCATAGTGTAGCAATTATTGGTGCAAAAGGTTGGTGCA
AAAGTAATTGTGGTTTTTGTCATGAAAATGGCAAGAACTGCAATTACTTTTGCATCAACCCATAACTCTGTGGTCTCTG
GAGCCAGACTGCCTGGGTTCAGATCCCAGCTCTGCCACTTAGTACCTGAGTTACTCTGGACAAACTAATTAATCTTCAT
GTACCTCCATTTAATTATCTGGAAAATGGGATAACAATAGTACCTATCTGGTTGGGTTGTTGTAGAGATTAAGTAAATT
AATATACGTAAAATGCTTTACATTTTACGTATATTAATTTCAAAATTGCTTCGAATGATGCATATCTCATAGTGCTTTA
TAAATGTTTGTCATCTTATTATTATTTGGGGAACTGATTATTTCACAAAATATATTTTCTAGATAGCTGAAGTTTATTC
AGTCAGTTTCAAAACTTCTAGATATAGCCAGTTTTCATGGGTCTTTACAAAAGGATCCCTGTATCTTTGTTTCTTCTGT
TTTAGAGAGATTAAATGGAATCTTCCTTTGGTGATACTGATTGAGGTGATACTGAGATAATTAAGAGGACATGAAGGGA
TTTAGGAAGAGTGTTTGCCCCTGCACTAACTGGCCCAGACTGCTCTACTGCATCAGCCCTCTGGCGATGTTCTAAGGGT
TTGGACTTCAGTCTACTGCCTATACTAGTACCCTTGCTTTAAAATTCCTGCTCCTATTTTGCTATAGGCTGTAAGCAAG
AAAATAGCCTAGTTTCTAAAACCTATGTATAAAATGAGAGAATAGGTGTCACTCAGGGTGTCAGTTCTCCCCTGAGAGT
AAATAAGACGTGACTGCATTTTTTCCTTCTGGGTGAGGGTTATGTTTTAGAGCAAGGGTTGGCAAACTACTACTTCCTG
TAGGCCAAATCTGTTTTTTGTAAATAAAGTTTTATTGTAACACAGCCATGCTCATTTGTTTATATGTCATCTACTGCTG
CTTTCACACACTGTAAGGGCAGAATTGAGTGGTTCCCGCAGAGACCATATGGTCTGTATAGCCTAAAGTATTTAATATC
TGACCTTTTACAAAAGAGTTTACCAAACTCTGTTCTAGAGCTTTAAAATTGGACAGAGACAGAAATAAATGAGATGTTA
CTACATTTAGTAGTCTCCACTAACCTGCCTATTCAATTATTTGCAGCACCACATCCCTTAAATGTATTTTGGAGAAACA
AGAATTTATTGCAGTAGGCTATGTTGGATAAAGAACAAACAGCCCTCAGTAGCACATTGTGAATATTAAGAGGTGGTGA
AGCTGTGATTGTCAAGCCAAGTTGTTTGGGAATCTTCATTTTAGTATTTGTTGCTCTAGTGTGATCAGTANATAACATG
ATGCAAAATTATATAGCTTTCTGTTGTGTGCTGTAGAATGTTGTTCTAGAGATACTACCAGTTGGTAGCTCCTTTTTTC
ATGCAATTATTCAAAGTAAATGTAAATATGTCTGTTGTCCTTTTCTTTTACATGAAAACTTCCCCCCTCCCCAACGCTG
TAAGATTCAGAAGCATAGTGTACAGAAAAGGATCTTGAACTTGGGTTTGAATCCTGACTTAGTCACTTTATAAAGGAGA
AACATCAAGTTACATTGCCACCGCCAGCCTCAGTTTCCTTGCCTGTAAAACAGAGGTGGGAATCCAGGCTATGCTTGCC
ACAAAAGGAGGACCAAATGAGACTCAGCATACTAGAAGGCTCTACAGCGCATATTATTACCTGTGTCTTTAATAATGTT
CTCGATTTGGTTCACTTTCTCCTCATACAAAGATGTGTATGTTTATGGAAAAGAATATACAATGGATTCTGAGTGAACT
AAAATTGTCAACTGCACTGGGTATGAGTCTGCAAGCATGAAGGAGGCTGGGTGAGAAAGCCTCTTCAAACAGCATATGT
ATTCCTCTGGTGTCTGCTTTATTATTCACTTCTCTAATGTGAAAGTTTATGCTTTAGTGCAGAGCTCCTGGGAAATATG

Fig. 6.32

CAAAGAAAAAAGAAAAGATAACCTTGGAGGGGAAAAGAGGTAGTGCTTATGCCAATACAAAAGCATGAATAGAAGCAAA
TAGTTGCTGGTTTCTTTTAGCTGTAGTTCTTTAAGTGAATCTGGTATATATACAAGAAGGTAGTTAATGTTTTAAAGAT
GAAGGAAGGAATAGTTTCTTTTAATGAAAATAGACTCTAGTGCTACGGAAATGAGAAGTCCCCTGTGATGAGGCTAGAG
GAGAATTACTGAAGGATGAAGTGAACGTACGTGGCTCCATTTTGTTTTTCTTGGAGGCCATAAAGAAAACCAGACAGCT
TACTCAGTGTAAGTTATTTATACTTGTAAAAAAAATCACCCCATTTTTATAATTTAAGGGGATGCTAACGGTTCAGCTT
TGGATTGCAATTACATTAAATGTATTTTCTCATAAACTTGTTTTCAAATGTTTTAAAAAGATTTAACCAGAAAATCCAG
AATTCTTTTGCTGAATTTGTTTTTTAAATGCTTTAGATAAAATATTTTAGAATTATGACCTTGAATTTGAATTTAAGGG
ACTCCTTCAACCTCCTCTTTTAATCTCCTTTGTTATTTGGAGGGAATTATCCAAGTTGTNTCAGTTAGCTATTGTTGTG
TAACAAACAGTTCCAAAACATAGTTTTGGATTAAATGGATAAATGATTAAAAGGATAATCATGGAAGATTTTCATGAGT
CTACCAGTTGGCTGGGGAGTTCTGGTTATCTAAGCAGATTCTGATTATTTTAGCAAGCCTTACTCATGCATTAGGAGTT
AGCTGGCAAGCCAAGATGACCTTCCTTGGTAAAGTCAATGCTCCTTCCCATGTCTCTCATATCCCTCCAACAGGCTAGC
TCAGGGATGTTTTCACAGTGGTGTCTGGGGTCGAAGCATGGGCAAGTCCAGTTGTGTAAAATGGTAGTTGGCAACACAC
ATGCACTTTTCAAGTCTCTTTGTGTGTCACATTTGCTAACACCCCACTGGCCAAAGCAGTTTGTGGTGGAACTCCGAGT
CCGAGTGGAGGATTGTAAAGTTATGAGTCAAAGTGTGCATACATAGGAAGGCCATGAGTTGGGCCATTAATACACTCAG
TCTACCAGAAGTCATTTCACCTTTTTTCCTCCATCTTAACAGCCTCCCTTTTGGAAATTTAACTTTTACATACTGTGTA
AAATCAAACCAAACAAACAGAAAAATCTCAACTTACCTGGTTACTTTTCAGCACTGTTTTTAAAGCTTGGTCAGGGAGT
AAGTTGTTATTACAGGCTAAAATTAAAATTTTGCTTATTTACTTACACACTTCTCCCCTAACTCCTCCTTTTTAAAGCA
AATTGAGTTTAAGCCACAAACTGTTGAATAATGAAGTTGGTTCTTTTTCAGTTTTATTCATATCTATCCCTGAGCTCTA
TTCTGCCTCTAATCAATTTCTGTATTTTGGAGCCGCTATTACTATAGCATTTGCTGGGTGAGTCCGTGGGGTTTTGATC
ATGCTTTCATATGTTCTTGCTGTTTGATTTCCTCTCTCCTTAACTCCAGGTTTGCATTTCTTCCTGCCTATTCTACATG
TCATAGAGGAACTTCAAACTGGACGTATTTTAAAGAATACTGGTTATCCACTTTGCCCAGTCACACATACCTTCAACCA
ACAAATATATATTTGTTGAGTGACTTCCATACTATTTCAGGCATTAGTAATATACTAGTGTAAAAGTAGACAAAATGGA
GGCCATCCTAGAGTTTATAATCTAATGGGGATTGACAGACATTAAACAAATGTGTGAATACATAATTTAATGCTTGGCC
GTGATAAGGGTTATTGAGAAAATAAAGCAAGGTGAGCAGAAAGGGAATGATGGCGGAGGTGCTTTTTTTGATTAGTGTT
GAGGGAAGGCTTCTGAAGTGAGGGAGTGAGCCATGACAATCTGGGCAAAGTGTGCTGCACGCAGGGGCATTAGTGGATG
CAAGGCTGTCTGAATGACGTTTGGTGCTGCAGCAGCTGTACTTCCAATGGAAAGAAGGGTAGGAAATGAGGTGGGGGAG
ACAACAAGGGACCAGATCACGCAAGGCCTTTGTAGACAACAGTAAGCTCGTTACATTCTTTCTAAGTGCCATGGCAATC
CATTGGTGGATTTGGGGCAGGGGAGAGACATGGTCTGATTCTGGCTGCTGCGTGGGGCACAGGCTATAGGGAGCAAGGG
TGGAAGTTGGGAGGCTATGACAGTCATGGCAGGGGCTGTGTTAGGAGAGTAACAGTGGAGATTGTGAGAGGATGGCAGA
CTGTGGAGCTCTCCAAAATGTGTTTCATTTAAAGAAGCCAAATTTAGATACTGTGATCAGTTCTGCCAAGTCGAGCCTG
TGGAGAAGTATCTCCCAAAGTAGACCCAACAGACTTCCGGTGACATCTCAGTTACTTTTAGGTGCTATGTCACATGCAT
GAACTTTTAAATTTTAATAGTTACTGATGATTTTAATGTGGATTAGAAATATATAAAACTTGCATGTGAAAACTATGAT
TTTACAGTTATTACTTGGAATGAGGAAAAAGTATTGAGTGTAGTGCAGACTTGAATGCAGAAATAGCAAAAATCTCTAG
GGTTATATCTGAATGATTGGATTTAGAACATGCTGACAGGATTATTTGTTAGATTGAGTCCTGAGGGATAGTGAAGGAT
AACTCTGGTAAGTATGTAATCAGATTTAGTTATTACCCCTTATTGATTATCTACTGAATGTCACTCTATGTTAGGCACC
TTCTATANGACATTTCACTCAGCTTTCCCTGCAACGCTATGTGATGCGGGTGGTAATTGTCTTTTTTTTTTTTTTTTTT
TCATTTAACAGATGAGAGAAGTGAAGTTCATAGAGAATAAATAGCTTGTTTTAGGAAGTCTCTGATTTTTCAGATATTA
CAAGATTAGCTCTGGTAAATTCTCTGCAAACAGGAACTTAGTCTGTTTTGTACACTACTGTCTCCTTAGAACATAGAAA
CATTTCTAGTATATAATAGACATTAATCAATACTTGCTAAATGAATGAAAGGAAAAAGAATGGTTCTTGTATTTAGATC
TTACTCAAGAGTGGTATATTTTGTTTTCCTTATTATAGAATGAGGTTTAGGAAGTAATCTCTTGGAGTTTAATGGAAAG
CCATTTTCGTCATAGGATGACTTCCTGTGTCCCCTAAGTGCAGGTTTCCCAATGTCCAGACCTTGGCCTTATATTTTTC
TCCTTATTCTCCTTGAAGGACCTGGCTCTTCTGGCTATAACTACATGTGCAATCCCCAAATCTCAGTGTTTGATCCTAA
GCTCCAGTTGTAGGATGTATAAACCCACTAACAAGCCTAGAGCCACTTTAGGGCAACATAACCTTGGCCAAGTGACTTA
ATTGCCCTTGAGCCTTAGTCTCTGTCAGTAGAAGGAAGAGATGGAAGAAGAAACTGAGCCTTGATTTGAACAAAACCTA
TGGGCACTAGAAGAAAGAAAGACAGGGTGCTTAGGGAGCATAACATTAGGGGGGAGAAGACCTAGAAAGCAAACAATTG
AATTTCTATTCCTTTTGAGCACCCTTATTTTGTTTCTATCTAGAACTTTCTAAGGAGTTAAAAAAAGACTCTTTTACA
TAAGTTTTTTCAAAAGGCTTAAATTTATTTTTTCTTAAAAAAAGGTAAAGTATTGAAAATAAAGCCATTCAAGCATTTA
GAGTCCTGGAGAAGCTCTAACCTGCAGCTAGAGCAGCTTCACACACATCCTTTCGCTGCCAGCAGCAGCTGCACAGAGC
TTGCTGGAAGGTCTGAGGCAGGGTGTGACAAACTGACCTGACTGAATGAAGGGGCTTCTGGAAAGGGGAGGAGCTCCAT
ACAGGAACATTGTTGGGGGTAAGGTGAGCCTGTGGAGGATGTCTCTCCTCTCTGCCTTTCCTTGCAGAGCTGGGAGCTG
TGGAGAGTGGAAAGTGTGTCTGAATGACTTCGCATGTTTAGTGAAGCTCATTGCCAGAACTGCGACTTCCCCTGTTGCC
TTGAATCTGCTGATCAGCCCTGGCAGCACACGTTTTTTAAATTATTTAAAAAGGGACAAGGGTTATAAAGATGAAAACC
ACATTTTTACCAGCCTCTGCAAACTCCTAATTTGGTGGGTGAAGGACACATCAATGAAATTTCCAGTATAAGGAGTGGA
GGTAAGTGCTATAGTCTGAATTTTTGTATCCCTCTCAAATTCATATGCTGAAACCTAATCACCAAAGTGGTGGTATTAA
GAGGGGGTTTGGGAGGTGATTAGGTTGTGAGGGCTCTCTCTCCATGAATGAATTAGTGCCCTTATAAAGAGTCTTGAGG
GAGCCTGTTTGCCCCTTCCATCATGTGAGGACACATAGAAGGTGCTGTCTATAAGGTATGAGCCCTCACCAGACATTTA
ATCTGCTGGTGCCTTGATTTTGAACTTCACAGCTCTCAGAACTATAAGCAATAAATTTCTGTTGTTTATAAATTGCCCA
GTCTAAGGTTTTTGTTATATATATATATATATATATATATATATATATATATATATATATACACATATATATATATGGCAG
CTCAAAGGGACTGAGACAGTAAGCCAGACACAGAGGTCAACACCTGCCTTGGGAAGATAAAAAAATTCCAACTGGGTGG
ATCTGAGTGATGACTTGGAAAGAATAGGATTCAAATTAGGCCTTGAGGCAAGGATGTGACTGATGCTTATCTTTAGGAA

Fig. 6.33

AAAAAGGTTGTTTTACTCTAGGTAAAGGAAGTAGCCTCTTCAAAGGCTTTGAAGCAGAATAATGCGGCGGGCGGGGGCT
GGGGTGGGGTCAGGGGGCATGGTACATCAAACAGTGGGGAGGGTGTAGAGTGCATAGTGTTGGGAAGAACACCATGAAA
TTGGAATGACAGAGGTGAAAGCATATGGTAGTATGGTTTGCATGCCAGATGAGCTCTTTGGACTTTTTGGGTTGGCATG
GGGAGCCATTGACACTTTGGTGAGAGGATCTGAGGAGTGGAGTGGCAGGGGAAGGCCATCATCAGCTCTGTGTGTGCCA
GGGCAGCAAGATTTGTTAGCTTAAAAAAACTTTTTGAAATAATTTTAATTTAGAGGAAGTTGCAAGAATTGTCAAAAAG
TTTTAGGATATTCTTCATCTGAATTTACCAATTGTTAACATTTTGCCACATTTACTTATCATTCTCTTGTTCTTTAAC
ATATACATATTATTAAGAGCACTTTTCTAAACCATTTGAAAGTAAGTTGCAGACATCATACCCCATTACCCCTATGTGG
TAATATCTAATATCTGAAGTCTGATCTCCAAACTTTATTCAAATTTCACCAGTTGTCCCAAAATATAGGAGGTCTCTTT
CTCCCTTTCTTTCTTCCTTCCTCCCTTGCTTCTCTGCCTCCCTTCCTTCCCTTCCTTCCTTCCTTTCCTTCCTTCCTTC
TTTCCTTCTTTCTTTCTCTTTNTTTCTTTCTTTCTTTTTTCTTTCTTTTTCCTTCCTTCCTTCCTTCCTTCCTTCCTT
CCTTCCTTCCTTCCTTCCTTCCTTCCTTTCTTTCTCTCTCTCTCTTTCTTTCTTTCTTTCATCTCTCTCTCTCTGTCTC
TCCCTCCCTCCTTCCTTCCTTCCTTCCTTCTGTCTGTCTGTCTTTCTTCAGATGCTCCTCANCTTATGATAGGGTTATG
TCCCAATAAACTAATCATAAGTTGAAAATGCATTTAATATGCCTAACCTATCAAATGTCATAGCTTAGCCTAGCCTACC
TCGAATGTGTTCAGAGCACTTACATTAGCTTGCAGTTGGGGAAAATCACCTAATGTAAATCATGTAATAAAGTAAATTA
CATAAATATTTCATGTAATTTATTGAATACTGTACTGAAAGTGAAAAAAGTATCCAAAATATGGTTTCTACCAAATGTG
TTTACTTTTGCAGCATCACAAAGTTGAAAAATCCTAAGTTGAACCATCCTAAGTCAGAGACCATTTGTAGCCTAGGTGA
CAATGAAATAGGCTTGAGTGGAAGCACTGACAGTGAGAATAAGACAGCCATTTCAGAGTTGAACACAATAAGATTTGGC
AACAATGGGCTTTAGGGTAAGAGAGGGAGTAAAGCTGGTAATGAGGTTGTAGTTTACAGGATTGATGTCCTTAACCAAC
AAGGATCTCAGGAAAGAGAATCGAAGTGCAAGGGTGTGCTTATGTTTCAGATTTTTCATTTAATAATAATAATTAGATT
TCTATAGTGCTTTCAAAGGCAGAAAGGCAGTATGATTGGAGGCAGCTTATGGCAGTGATCAAGAGTAGGAACTCCGGTG
CTAGACTGTCTGGGTTGGAATCAGGCTTTGCTGCTTATTAGCTGTGTGACCTGGGAAAAATGACCTAAGTTGGCTGTGC
CTCAGTTTTCTTATCTGTGAAATGGGAATTTTAACATCGTTTCCCTCACAGGATCATTGTGAAGATTAGATTAGTTATT
ATTTGTAAAGTGTTATTATTTATAAAGTATTATAAGCCATTCTGACATATAGTAAGCACTGTATGTGTTTGCTGAATCA
ATATAAATAAACTTATTTTCCCATATTACTGAATCCTCACCAGCAAATCTGTGAGGAAGGTACTATTATTATTATTGCT
AATTGGGACTCAGGTGTTACATGGTTTGCCCAAAACCATATAACTATCGGTAAAAATGCTCATTCTGTTCCACCTACCA
GACTATCCCCGGGCTCGCTACATGGGGATACCTAATAGGCCATAGTAATGGGCTAGTGTCTCAGCATAGGCATACTTTG
GGAGTATTGTGGGTTCAGTTTCAGACCACTGCAATAAAGTGAATATTGCAATAGGGCAAGCCATGCAAACATTTTGGTT
TCCCAATGTATGTAAGTTACATTTCTAGTATACTGTAGTTGATTAAGTGTGCAAATAGCATTATATCTAAAAAAAGTAC
ATACCTTAATTTAAAAATACTGGTTGTTAAAAAAATGCTAATGATCACTGAGCCTGCAGCAAGTTGTAATTTTTTTGCTG
GTGGAGAGTCTTGCCTTGACATTGATGGCTGCTGAATGATCAGGATGGTGGTTTCTGAATGTTGGGGTGGTTGTGACAA
TTGCATGAAATAAGACAACAATGAAATTTGCTACATCAATCGACTCTTCCTTTCATGAAATATTTTTATGTAACATGCA
GTGCTGTTTGATAGCATTTTATTCACAGAACTTTTCAAAATTGCTGTCAGTCCTCTCAAACCCAGTTGCTGCTTTTTAT
CAACTAAGTTAATGTAATATTCTAAATCCTTAGTTGTTACTTCCACAATGTTCACAGCATCTTCACCAGGAGTAGATTC
CATCTCAGGAAACCACTTTCTTGGCTTATGTGTAAGAAGCAGCTCCTCAAATCTTCAAATTTTATCATGGGATTGCAGA
AATTCAATCACATCTTCAGGCTCCACTTCTAATTCTAGTTCTCTTGCTATTTCCACCACATCTGCAGTGACTTCCTCCC
CTAAAATCTTGAACCACTCAAAGCCATCCATGAGAAGTGGAATCACTTCTTCCAAACTTCTGTTAATATTGGCATTTTG
GCCTCCTCCCATGAGTCATGAATGTTTTTAATGGCATCTAGAATGGTGAATTCTTTCCAGAAGGCTTTCAACTGACATT
GCTCATATCCATTAGAGGAATCACTGTTTATGGCAGCTACAGCCTTACAAAAATATATTTCTTAAATAATAAGCCTTGA
AAGTCAAAATTACTCCTTGATCTATGAACTGCAGAATGAATATTTTGTTAAAGGCATGAAAACAATGTTAATCTCCTCG
TAGTTCTTCATCAGATCTCTTGAGTGACTAGGTGCATTGTCAATGAGCAGTAATATTTTGAAAGGAATCTTTTTTTTTT
GGAGCAGTAGATCTCAACAGAAGGCTTAAAAAATTCGGTAAACCATAATTAAACAGATGTGCTGTCATCTAGTCCTTGT
GGCTCTATTTATGGAGCACAGGCAGAGTTGATATAGCGTAATTCTTAAGGGCTTAAGGATTTTTGGAATTGTAAATGAG
AATTGGCTTCAATTTAAAGCTACCACCTGTATTGGTCCTTAACAAGAGAGTTAGCCTGTCTTTTGAGGCTTTGAAACTA
GGAATTGACTTCTCTTTAGCAATGCAAGTCCTAGGTGGCATCTTCCAATATAAGACTGTTTTGTCTAGATTGAAGATCT
GTTGTTTAGTGTAGCTACCTTCATTGAAAATCTGTTGTTCAGTGTAGCTACCTTCATTTGTTATCTTAGCTATATTATC
CAGTTCACCTGCTGCAACTTCTTCCTCAGCATTTGCTGCTTCACCTTGTACTTTTCTGTTATGGAAACAGTTTATTTTA
TTAAACTTCATGAATCAATCTCTGTTAGCTTCAAACTTTTCTTCTACATCTTCCTTACCTCTCTCAGCCCTTGTAGAAT
TGAAGAGTTAGGGCCTTGCTCTGGATTAAGCTGTGGTTTAAGGAAATGTTGTCACTGGTTTGATCTTCTATTCAGACCG
CCCAAACTTTCCCTATATGAGCAATAAGGCTGTTTTGCTTTCTTATCATTCATGTATTCACTGGAGTAGCACTTTTAAT
TTCTTTCAGAACTTTTCTCTTACATTCACACCTTGGCTAACTTGCACAGGAGCTTTTGGCTGTTCTTGGCTTTTAACCT
GCCCTCCTCACTAAGCTTATTCATTCCGAGCTTTTGATTTAAAGTGAGATATGTAACTGTTTATTTCACTTCAACACTT
CAAGGAAATTGTAGGGTTATTAATTGGCCTAACTTTTAATATTGTTGTGTCTCAGGGAGAAGGAGACCTGAGGAGAGGA
GAGATTTCTGGGAAAAGCCAGTCAGTGAAGCAGTTAGAGAATACACATTATTCATTGATTAAGTTCGCCGTCCTATATG
GGCATGGTTTGTGGCATACCAAAACAATTACAACAGTAGCATCTGAGATCACTGATCACATATCACCCTAACAAATATA
ATAACAATGAAAAATTTTAAATATTATAAGAATTACCAAAATGTGACAGAGACATGAAATGAGCACACATTGTTGGAAA
AATGGTGCTGATAGACTTGCTCAACCAGGGTTGCCACAAACCTGTGATGTGTAACAAAACACAGTATCCGCAAAGTGCA
ATAAAGCAAAGTGCAATAAAACAGATAAGGGCTGGAGGCTCTGGAGTTGAAAGCCCTCTACATGGAGATGATCATTGAA
GACATGTGATGTATGCAGNCACTAAGAGAGAAGCTGTAGAAGAAAAAGCTGAGTGTTGGAGAATGTTGCCTATGGGGTA
TGAAGATGAAGGGGAGCTGGTGACTGAGACTGGGTAGGAGCAGTCAGAGAGGTAGGAGACAGAACAGGAGGGGGTGGAG
TGAAGGAAAGGAAGAAAAGTAAGGGCTTAAGAAGGACTTGGCCATTCTTTACACAAACAAGGCAGACAAATTCAGAGCA

Fig. 6.34

GAGACCTGGGATAGTGATGAGTGGGTTTCTTAGTGACCATAGTGAGAATGGTTCATTGGCTTGGTGAGGACAGATGCTT
ATTTATGGGGCTCAGGAAGAATGGGAAGAAAGACNTGGATTTTATAAATGTGTGCTATTCCCTTAAGCAGATTGGCAAT
AAAAGGAAGGAAAACTTTGAAAGAAACAGGGTAAAGAAATGATCTGTCTCCAAAAGAGGCAATTGTCTTGGTCATCCAG
GAGGTAAAGGCAAAGGCTTGAAGATGCAGGAAATGGTGGGGACGATGGAGAGAGCTGGCAGGGATAGAATCAGGAGCAT
GGCTGGAGGGATTGGTCTCAGGAAGAAATAGAGACACTGCTTCAAGATTGGAGGGAAGGCTGGGCACAGTGGGTGGCTC
ATGCCTGTAGTCCCAGCAATTTTGGAGGCTGAAGTAGGAGGATTGCTTGAGTCCAGGAGTTCAAGATCAGCCTGGGCAA
CATAGTAAGATCCCCATCTTTGCAAAAAGGAAAAAAAAGTTAGCCAGACATGGTGGCACATGTTTATACTTCCAGCTAC
TTAAAAAGTAACCCTGACTCTTAAAAAAAAAAACTGAAGGCAAGAAAGAGACTGTGTGTGATGACCTATGACATTTCAT
ATGAAGGAAGGAAAAATTGAGATAATTCACCTAGAATTGCCTCAATTTTTGTTGAGTGGGCAATGAAGCTGTTTGTTGA
GAAAGTTAGAAGTATATTTGAGAATCTGAAAGGGCTTGAAAAGTTAGGATGTAGACTGGGCATGGTGGCTCATGCCTGT
AATCCCTGCATTTTGGGATGCTGAGGCAGGTGGGTTGTTTGAACTCAGGAGTTCAAGACCATCCTGGGCAACATGGTAA
AATCCCATCTTTATTAAAAATATAGAAATTAGCCAGGTGTGGTGGCACTCACCTGTGGTTCCAGGTACTCAGGAGGCTG
AGGTGGGAGAATTTCTTGAGCCCAGGAGGCAGAGGCTGCAGTAAGCAGAAATCATACCATTGCACTCCAGCCTGGATGA
CAGAGCAGGACCTTGTCTCAAAAAAAACAAAAAAAAAAAAAAAAAAGAAAAAAGAAAGAAAGTTAGGATGTGTATTAGA
GATGAAAAAGGGGACTGTCCAGTGAGGGAGGACCAGCATTTGGACTGGTTGAGTGGCTTGGTTCTACAAGGTATTATCA
TAGGACTTTCCTTAGTGACTGATATGGTTTGGCTCTGGGTTCCCACCCAAATCTCACATCAAATTGTAATCCCTATGTG
TCAGAGGAGGAGCCTGGTGGGAGGTGATTGGATCTTGGGGGTGGATTTCCCCCTTGTTGTTCTTGTGATAATGAGTGAG
TTCTCACGAGATCTGAGTATTTAAAAATGTGTAGCACATCCCCTTTCTCTCTCTCCTGCTCTGCCATGCCAAGACGTGC
TTGCTTCCCCTTCACCTTCCATCACAATCATAAGTTTCCTGAGACCCCCAAGTCATGCTTCCTGTTAAGCCTGGGGAGC
TGGGAGTTAATCGGACCTCTTTTCTTCATAAATTACCCAGTCTCAGGTAGTTCTTTATAGCAGTGTGAAAACGGACTAA
TAGAGAAAATGTGACACCCCAGAATTAAGGCAGAAGAAATGGATTGGCCAGTGTAAGNATGGCTTTTAGTGAAAGGTT
AAGAATACTAGGAAATCTCAGAGTTCAGAGAGAATTCAGTTGGAGATGGTTGACCATAGGCTGTGAAGGCAAGAGGAGG
CTGAACAAGGTTCCTGTGAAATATCCATAATGACAGAGAAGAAGGAAAGCACATTTCTGGGGCTCCAAGTAGCCTCTTA
GAAGTTGGAAAATTCTCAAGTCTTAAGTTTTAACTTTAAAATATTTAAAATTCCAGGGCTGGGCCTGGTGGCTCATGCC
TGTAATCCCAGCACTTTGGGAGGCTAAGGCAGGCAGATCACAAGGTAAAGAGTTCAAGACCAGCCTGGCGAACATGGTG
AAACCCCGTCTCTACTAAGAATACAAAAATTAGCTGGGTGTGGTGGTGTGTGCCTGTAATCACAACTACTCGGGAGGCT
GAGGCAGGAGAATAGCTTGAACCCAGGAGGTGGAGGTTGCAGTGAGCAGAGATCACGCCACTGCACTCCAGCCTGGGCA
ACAAAGCAAAAATCCATCTCAAAAATAAATAAAATAAAATAAAATAAAATAAAAAAATATTTAAAATTCCAGTGCNGAT
CTGTTAAAATAAAGTAGTAGATGCTAGTAGGTGATTGATTTCTCAGTAAATAGACACCTAAAATATATATGCCATATTT
TTCCATGACAAGGGCCTATACTGGGTGGGGGTGGGCTGGGAATTTGTATCCCAGTTTAAGAAGACTGGAAGAACAAAGA
AAAGTAAGGGCAAAATCAACTACTGAGAACAACGAAGGGGCAGGATAAATTCAACAGGAGGGAAAGAGTAGGAAATGTT
GAAAAATTTGAGACTGGCAGATCTTGAAAATGAGACAATCCTAGTTGATAATGAGCTCCAAAGTGTAATCAAGAAATCT
TCCAAGTGATGGAGATAAAGAGATGGAGGCTGTCTTGGGTGATTTCAATCTCATTGAATTGCTCCTGACTTAGATTCAA
TACAAAATTTCTCTCTTGTGGTGCACAGAAAAAATATTAATGTTTAAAAAGATGCATTTGTAAAATGTTAAGCCAGACA
TTTATTTTTAAACATTGTCTTGAAGTCAGAGAGAGATTAATAGAGCCATTCTAAATTTTCTTAGGGAACATATTTGGTA
TCTGCCTCCTGTTGTACAATCTCTAAGAAAAGTGAGAGCAAGAAGAACTATAAAATTGAAATGCCAATTGTGATATCAA
GTAATTTTTAAATGAATGCATCTTTCAATTCATTGATAGGATAAATCCTTATTTACTTTATCCGTGAGGGTCTCTGTCT
TGAACAACAAGCAGCCAATTTGTGGAATTAGTGGCTGTTTCAGGAGGGTAAGTAACCTCTCATTTATGACCATCTCGTT
CCTATGTTTTAAAATAAGATTGTGGACAAATACTTCCATTCAACCTAGTAGATGCATTTTGGCAATGGCAGATCACCCA
AACAATGGATAACAATAGCAAAAGAAATGATATAGTCAGAAGTCTAATGTTAGCCATTTGTTCCTAGAGTTTCGAAATA
CAGTCAGTTCCCAACTCATGATGGTTCGACTTAGAATTTTTCAACTATTTTTATGATGGTGTGAAATTACATGCATTCA
GTAGAAACTGTTCCCTTCCTGTTGAATTACTCTGTCCCTTCATTGTTCGGTGCAGTTGATTTTGCTCTTCCTTTTCTTT
TTTTTTTTTCACTTTCACTGCAGCATTTAAAATTACAAGAGATATTCAGTACTTTATTATAAAGTAGGTTTTGTGTTA
GATGATTTTGCCCAACTGTAGGCTAATGTGAGTTTGGAGCATGTTTAGGTAGGCTAGGCTAAGCTATGATTCTTGGTAG
GATAGGTATATTAAATGCATTTTTGAATTAATGATATTTCAACTTACAATGGGTTTATTAGGACATAATCCCACTGTAA
GTTGAGGAGCTTCTGTAATTATAATATCAGATATTGATAGCTTCCATTGGTAAGTAACTTCAATATTTCCCACTCTTTT
TTTAAAAGCTTGACGAGCATACAAATAATAAATAATTAATGTTTCTAGTAGAAAAGAGGTAAGTAACAGGAACAGAAAT
CTTGGACCATCTTAAATGAACCAATGGGAATGTCACCATGCACATCCTTCCAAACTTTGTTTCAAGCTATTTCATGTCA
AATTTATGCTTATACAAGTGGAATAATATGTATGTTATGTCTTATGTTTTAAGGAAGTCTTGACTTATGGAGGGTGAGC
ATTTAGTCTCACTTTTAAACTAACTTAGGAAAATGATCTAAAGCATAGTGAAAAGAACAATAGAGCAAGAGGAATGAGG
TGTTAGTTTAATGAAATAGTTTAGTGAAATAATGCCAAGGACTAATATATTGAAGAGATATTTCTTTAGCTTGGCATAT
TTCAGGAAGCAAGCGGGTGCATTTAATAAATTAAATTTTTATTTAATTATTTATTTTTATTTATTTATTTTTTTAAAGA
TGAAGTTGTGCTGTCACTTAGGCTGGAGTGCAGTGGTGCGATTATAACTCACTGCAACCTTGAACTCCTGAGTTCAAAC
AATCCTCCCGCCTCAGCCTCCCAAATAGCTGGGACTACAGGCATGTGCCACCATGCCTAGCTAATGAAAAAACAAAAAA
AAGTTTATAGAGATGGGATCTCACTTTATTGTCTAGGCTGGTATTGAAATCCTGGCTTCCCACCATCCTCCCACCTTGA
CCTCCGAAAGTACTNGGATTACAGGTGTGAGCTGCCATGCCTGGCCTGGCCTTGCTTTTTTATTTTTTAGCTTTTATAG
CTCCATATCCTCTAATGCCACCACAGTATGATGAGTGGAAATTTGGGTACCATGTTTAGCACTGATTTTCTCTCTTGGC
GAGGAGGCACCACTATCACGCTATGTTGAGTTTTTGGCAGCCAAGATCAGAGGGACTGTCTTGTAATGGCCCCATCCCT
GAGATCTGTGGGAATAACACAGGAGACAGGCACTGACTGCTTCCAGGGGAAGCAACAATCAGTGCACTGAATGCCTTAC
CAAGCTGAGTATCGCTGAACTTCAAAACAGTGCCAGAGGAGTAGAGTTTTTTAACTTCCTCTGCTCTGTCAACAGCTG

Fig. 6.35

ACTTAGCTGATTTTTGCCTGTGATGATAATATCCAGAGTGATGACTGGATTCTCATAATCTGCTTCTCTACTGTTAAGG
AGGGATTTTTACCTGATAGCATTTCTCTAATTTTACTTATTTTATTAATTCTTCTATGCCAATTACTTATAAATTTTGG
CTTATTTCTGATCACACTATACCATTTGTAAAACATGAAATTCAAGTTGATTGATTGCTATAATTTTCTCCCATCCATA
TTCTGGATGAATCAAAGATGAGGCTGGCAGTGTTTCTTTCCCTTTGAAAACACTTGGTTCATTTTCACAAACAGAAAAA
TTACATGGCTTCCTGGAGACATTGATTTGTTCTTCTGGAAGGGTTGGACCTCCATTGAGAATCACTAATTTAACAAAAA
GCCCACAGATCATTGTATGAGTGTGTGTGGGATGGGGAGGGGGAGAGAGAGAAAGAAGGAAAGAAATGGGTTAAAATTT
CATTTTAAGGAATCATTTTATTGTTGGATTAGAAACTAAAGACTGTCCATAAAAAAGAGGAACCATTCTAAAATTTTCA
TAACTTGCTGTATGTGTGTATTTTATTTCTTAATAAAGCTCAAGTAGTTTCTCATGAAAGTCAATGGATAGAGAGCCAT
TTCAGGACNTGTTTGAATTGGCAGTTGGTTGGAGTTTGGCCATGGCAGGAAAGGACAGCTGTTTGTTGTGGGGCCTTGT
CTCCATGGTGTTGGGCAGCACATCTTCAGCTCTTTCTGGGAAGACCTCAAAGTAGGAATAGACCAAGAAAAACAGCAAG
AGGGCATGACTGCATGCTGGTCAGATGGAATTCAGCCTGTACTGCTCTAGCAGAGCTTCTCCAGGGGTTAGAATGTTTT
GCTTTTATAGTCATCTGGATTGTTTGTTTACTAAGGGTAGAAAGGTCCCAGCCTCACCCAAGACCTCCCGATTCAGTCT
CTGTGGGGAGCTGCTTGGGAATCTGTATGTTAGAGAAGCTCCCAGGATAATTGTGATGTGTGGTCATGTTTAAGAGCTG
CTAGTGTAAATAATGGTGAACAGTAGCACTGGCTGGAAGCACTGTAGAAATTGTGTGTGTGTGTGTGTCTGTGTGTGTC
TGTGTGTATTGTGCAAGAGCTATGAGATAAGATCAGGCTACTGGAATTTGCCAAGAAGCAGCACGGGAGACACATTAAC
TAGACGCCAAGGATGTGGCCATAGACTTTCCTAGAAACTCCCTCATCTAGGGTGTGCACGTCTGGATTGCACTGACTAG
TCCTGATTAAATCCTGTATGCATAGGCTCAGTGCAGGCTGGGCTCCAGAAAAGGCCATCCACAATGTTTTCTTTTAAAA
TTCCATATACTATTTATCTTTGATTTTCTACCTCCTGCAGGAATCCCTAGATCCAACTTTCTTTGGTGAGTTTGCAGGG
GTTTCTGATGGTTCTCTTGTTTCACGGGTTTCCTTCTTATTTTCTACTCCTTTTATTTGGAATGTCAACCTACAAACTT
AAAAGATTGAGCAAACTTTGTAGGAAAACTACAGAAGTTGGAACCACATATGATGCTTTCTATTATATGCCCAAAGTCT
GTTGTATATGATGAAAATGAGGTTTTATTTACTTCTTGGTACACCAAACACAAACACTCTCTAATGAGGAAAAGAACCC
AATGAGGGGGAAAATGCTGGATGCCAATGGATGGCAATGATTTATGGAACTCTGGGCTCAGTGGTAGTGAATGATCATC
TTAAGGGAAGACACTATTCTACAGTTCGGTGTAGCTGGGATGACTTTATATCCTAGTTTGCAAGACAGTCCTGGCCTCA
CCTGTTGAGCTGGTGTCCCATCTAGTTAAGATACCTTTCATGCTCCCCAGTGTCCTGGTTGAGATACTCCGTTTATGTG
GTCACCGTGAGGATAGGAAACAGAGAGAGGAGATTTTTCTTTGGATCACTGAATAGTACTCATTTCATTATATGATTTA
TCCCATTCCAGGCTCACCCCTAACATTTGAGGGCCCAGGACAAGACCCCCCTATTCCACAACCTATTCCTTCTCTTCTT
GCCCTGGCTCCACTGTGCAACTGGAGGATCCTTGTAAGAATGTGTGTGGGTGAGCCAGCCTGCTCATTCAACTTTATTC
ACACCCACATCCACTAGCTGCCCATGAACACCCCTCAGGCCTAGGGGTGCGCACACCTGTGAGTTGATCTGCTTCGGGA
GGGTGAAGACACACCCAGGCCCTGGAAGCTGGTTTCGGACCACTTGGGGCAGGAAATTCAAGGGTCATGAGTACTTGGG
GAAGAGTCTAGAAGGGAAGTTGTNCCTGCAGGTGGGTATGTATCACAGCCCTGCAGACTGCTGGTTCCATGGAGAGGCA
TGGCTGGAGAAGGGCAGGAGAGGGCATTCTGAAGCATCAGCCCCCTGATTAGGGATACCTGGCCCTAGAGTGGTCCTGG
CCTTTTCACTCCTGCTTTTCAGAGATCCTGCTTCTAACACATCCTTGAGCATCTCAGTAAAGCAAGCTTCCTATGCCAT
TCTGAAGTGTTTGGGTTAAGAACGTTTCTCATGTGAATAATGCTTGGTCACCAGACTGAGGTCCAGCGTATTCTTCATC
TGGTCTGATAGAAATCCCTTGTCTTTAAATGTCATATATTTAAGGTAACAACTCTATTTTGTAGGTTGAAACAAAAACT
TAAACTGTATCAGTTAATGTTTTTAAAGTCAACCAAAGGGAAGGCACCTCTTCCCAGTGTGTTTCATCAATTGAAATCT
GGTGAATGTTTTTTTGTTTGCTGGTATGTTCCACCATGTGTGTGAGCATGAAGGTAGGAAAACTGTTTGCTCAGCCATT
CCCTCTGTGGTTTGGTTTGTTGGAGAATCAGTCAAATGGAAAGGCTTTCCTCTGATGTGATTACAGAATCAAATATTTT
ATAATTCCCAGATACTTCTGAATCTTGAATAATTATTAAAGTCAGTGAACACTTTCTCTTTCTTTTCCTTGACTCCCTT
TGGATTGAACTAGCCCGCAGGGCAACACAATATTATTTCCCTGGGCTAGGTGCACTTTCCTCTTCGTGGACTATTGGGT
GCCTGTAGATAGAGTCCCTGTGCACAGCAGGCAGATTGTGCACCGCATAGTCCTGGAGGTAAATTTCACCAAGAGTATA
AGTGGGATTGTGCAAAATGGTAGCCCTGCCTATGCATGTTTGGGGCAGGGATTCCCCCCAACTGTGTATTTCCTGGGAG
GCCTGATTTTCCTCCTCTTTCTGTCACCCATCATAAGCATATGGAGAAGATGGATGTTTGAAGGGAAAATAATGTTATT
TTCTGCATTTTCTCCCATTTTTTGAGAGCACTCATTCTCCTTCTAATATTAATTTAGATCAGGGAAAATAAAAGCCATT
TGTTAAAGAACTAACTATTATATAATAAATTATCAAACAATTACGCCAAAGGTATGTTTACAAACTCCTGTTCTATCTT
GGTGGGTTGATTAGCTTCCTTGGGGGGTCCAAACAGCTATGGCTTTTCCATTTTTATAAATGGTTCTGCATTTATAAAA
TTAAGAATGGACATTTATGCTATTAATTAAGAATGGAATTAATAGTGTAAAGGGATCCTTCAAATACCCATGTGTTATT
GCTCAATTTTAACCAATAAATCTTATACCAGAGTGTTCTGCCTGCTTCCGGATGAGCAAGGAGACTTGTGGTCTGGTTC
TTGGACTTCCCTAGCAGCATGGCCCCCAAATGCCAGTCTCCACTCCTGCCTCAAAAGAAGAAACCAAGAATGCCTCCTG
CTCTGGGACCGGAGGAGACATTGGCCTCTGCAGGCTTGCTGAGGAAGGGAGAAAAAGAACAGCAAGAAGCAATTGAATG
CATTGATGAAGTACAAAATGAAATAGACAGACTTAATGAAGAAGCCAGTGAGGAGATTTTGAAAGTAGAACAGAAATAT
GACAAACTCTGCCAACCATTTTTTCAGAAGATGTCAGAATTGATCGCCAAAATCCCAAATTTTGGGTAACAACATTTG
TCAAGCATCCACAAGTGTCTGCCCTGCTGGAGGAGGATGAAGAGGCACTGCATTATTTGAGCAGAGTTGAAATGACAGA
ATTTGAAGATATTAAATCAGGTTACAGAATAGATTTTTATTTTGATGAAAATCTTTACTTTGAAAATAAACTTCTATCC
AAAGAATTTCATCTGAATGAGAGTGGTGATCCATCTTCAAAGTCCACTGAAATGAAATGGAAATCTGGAAAGGATTTGA
TGAAATGTTCATCTGGAAAGGATTTGATGAAATGTTCAAGTCAAATGCAGAATAAAGCCAGCAGGAAGAGGCAGCATGA
GGAACCAGAGAGCTTCTTTACCTGGTTTACTGACCATTCTGATGCAGGTGCTGATGAGTTATGAGAGGTCACCAAAGAT
GATATTTGGTCAAACTCATTACAGTACTACTTGGTTCCCGATATGGATGATGAAGAAGCAGAATGAGAAGAAGATGATG
ATGATGATGAAGAGGAGGAAGGATAAAAAGATACTAATGAAGAAGACAATGAAGATGAAGGTGAAGATGAAGATGATGA
TGAAGGGGAGGAAGGAGAGAAGGATGAAGGAAAAGATTACTAGAACACTGATAGGTTCCAACTTTCCTGTTTAAAAATT
TTTCTCCAGTCCCTGGGAGCAAGTTCCAGTCTTTTCTTTTTCCTCTTGTGCTCTGTTGCCCTGTTGTTGAGGTCTCTTT

Fig. 6.36

GCTCTACACCATGGTTCTCAACTTATTGCAGAATACAATGGGAAAAGTGTCTCTACGCCTTTCTGTTTGAAATTCATTT
TTATCCCTTTCTGTCTGAACAAAAACTGTATGGAATCAACACCACCGAGCTCTGTGGGAAAAAAGAAAAACCTGCTCCT
TTCATTCTGCTGGAAGCTGGAGGGTGCTAGGCCCCTGTGTAGTAGTGCATAGAATTCTAGCTTTTTCCCTCCTTTCTCT
GTATCTTGGGCTTAGAGAGTACACGGTGTCTCTATGTGAATATGGACAGTTAGCATTTACCAACATGTATCTGTCTATT
TTCTCTTGTTTAAAAAAAGAAAAAAACTAAAAAACAAAATGGGATTATAGAAGGTCAGCAAAGGGTGGATCTGAGATGT
TTGGGTAGGTTAAGTGGGCATTTTGACAACATGGCTTCTCCTTTGGCATGTTTATTGTGATATTTAACAGGCATCTTTG
TAGTTTAAGATGACACTTTTAAAATAAATTATCTCCTAATGATGACTTGAGCCCTGCCACTCAAAGGGAGAATCAGAAG
AACCTGTAGGATCTTATTTGGAATTGACTTTCTCTATTGTAATTTTGTTCCTGCTTATTTTTAAGTTTTCTTTTTGTTT
CACTGTAAAGGAAAGATGATGCTCAGTTTTAAACGTGAAAAGTACAAGTTGCTTTGTTACAATAAAACTAAATGTATAC
ACATACACACACACACAACACACACACACACACACACACAAACTTATACCAAAATCACACCACTTTAGTTAGTTGTCCA
CTGGAAAGGTGCTCTTTGTTTTCGAGCTTCAAAGAAGCTCGTCTTCTTTTATTTGACTGTCGCTAGGGACTCCACTGAG
CAGGAATGACTATTCTGATATTTGCTTGTTACATTTTTGGTTTTCAGAGGTGGCATATTGAGGAGGTGCACTTATGGAT
TGCAGCATAAGTATCCATGAGTCCGGGTGTGGTGCGTGTGCTCACTCATTATCTTGATGTGCTGCTCACTACCACGTCT
CTCCTTTACACTATTGGAAACTTTCATTCTTAATAATTTAATTTATCCCTAGTGACTCCAGCCTCCCATGACAGACTAA
AAAACCAGACTTGATGAAGTCCAGATATATTTTAATTCTCTTCTATCAAGCCCAAGGGAGAATTTCTTAGCGACTATGC
TGACTTATGTCTTGAAAAAACTTTAACTTTGGGAATTTTGATGTATAATGAAGCCAGGAGAGGGAGACGTGTCATTCCA
AAATGCTGCGAATAGAATTTAAGCAAGCAACATGACACACATTCTTTGTTTCTTTTGCTTTTTTTTTTTTTTTTTTTTT
TTTGCAATGAAGTCTCACCCTGTTGCCCAAGCTGGAGTGCAGTGGTGTCATCTCGGCTCACTGCCATCTCTGCCTCCTG
GGTTCAAGTGATTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGACTACAAGCATGTGACACCATGCCCAGCTAATTTTTT
TGTACTTTTAGTAGAGATGGGGTTTCACTGTGTTGGCCAGGCTGGTCTCAAAATCCTGGCCTCAAGTGATCCACCCGCC
TTGGCCTCCCAAAGTGCTGGGATTACAGGTGTAAGCCACTGCACCTGGCCATGACACATATTCTTAGCTATTCTCCAAA
AGGGAGAACACTAGAAAAGTGGTAATTTGAAAATAGAAACTGTCCAGTAGCAACTGGATGGCTCATAGCTCCAGTGGTT
CTAATAAGCGCTCAGTGGAGAGTCTGATACATATTAGGTGCTCAAGAAAATATTTGTTAACTGAATAAACAAATCAATC
GGATCTTGTTCAGAGAAATTCCAAAGCAGAGAATATCTGCCACAAGTGCTCACATCAACCATGCCTATTAAGCAGCACC
ATGTTGTTTGCTCTCGCAGAAAGGGATTTGATTTGGCATTTGCTGAAACAGGCCCCCATCTTACAGACGGCATTGAGAC
TCGGAAGAGTTAAATAATTTCCTCACAGCTACTAAGCACTAGAACTAGAATAAGAATGTGTGCTTTCTGACTCTGAGTC
TAGGATTCTAGGACTTCAAGGGTTTCCTATCTTTTTGAAGTCATGGGGCAGAACAATATAAAGGAACAGCTGGAAAAAC
TGAAATGAAATTACTATTCACTCTTACATAGGAAGAATAAAGATAACTCTTGAGGGCCCTGATATATTATAGTAATAAA
AACAAGACTGAGGTAGCAGAAGCACATGGACATGCAGGGAACACTTCCAAACATCCTTCAAAAGGCCTAACTTCTAAGG
ACAGGAAACATGAGGAAGCAGAGAAGGAAGGAAATGTGTCTAAATTCTTCCAAGCTGTTTCTTTTACTATTCAGGCCAA
GCCTTCTATCTCTTAAATCAAAATTTCAGGGAAAGCTTATGGCAGATGAGACTTTTGGGAGTACATTAGAAAACAGGAG
GGAAAAAGGCCTTATTACTCACTGATTTGTATCCTTGTGTTATTTTATAATATTATTAAAGCTCTTTCCATGTTATATA
GATTCTGTCTCTCAGCTGTACTGCAAATCTATTAGGACAAGTCTCGTCTCTTTTATGTATTCCTTCTACTGTGTCTATA
TGTGGTGGTCTCTCAGTCGAGCAGGCTGTACAGTTTATTCGAAGTGTTCCAAGGAGCTTGTGTGCCTCCACTGCTCTGA
CCTCATTTTTGCAATGTTAATTAAGTTGGGTAGATGACCTATTCGACTGATAACACTCACTAGCTCACTAGTATATGGT
AAGTAGTTTATTCTCTTAGTTAGTTGACCGTGACCAGATTAAAGCCCAAAAAGACAAGAAAAAAAAATCAGGTGGTAGAG
AGTGGGGAACAGAGGTATAGGACACTGTTTTGGGAAAGTGGATCTTCTTGTGTTCCTACAGAGGATAACTCGGGCNTGT
CAGGATGAGGTATTACAAGAAGAGAGAACAAGAGNGGAGGCTCACCATTAAATTTGGCTTCTGGCCTTGGGTCAGCCTT
GCATGATGTTTTGTAGACTGAGAGTAAGGAAGGAGAAGTTGAGACAAAAACTTTACTCTCTGTTTGGTCACTGAGAGTA
AAGGTTCTCTTTGTGCTAGCTTATTCTTAAGCAGTATGCATGAGGCATTTAGGGGTTTATTGCTGAAGAAAATTCATCC
TCTTGTGCTAATTGGGCAGGGATTCCAAGGGATTAAAACCAAAATCATTTGACCACCTGAGTTACAGTAATTTTAGAGC
TTAGGTTGTTTATTTTCACTGTATAGCACAACCAAATACTATTCAGTCTGGCTGCATGGAATGAGATATGGCTAATTAG
ATTTCCTGGCTAACCCAGGTTAAGGCAGAAATGCCATGTTAACAGTAGCACCCTTAAACCTGGGGAAAGAGGCTCTTGC
CTCGTGTCACTTGCTTTAGAGGGCCCTACTGGTCTTCCTCCACTGTGCCATGCCTTATGGGGAGACGATTCTGCAGAGC
CATGTGGATATTGTCAATCCAAAGCACCCCATTCCCTCTTCTAAACCACTTGGTACCCCACAATTCCTACCTAAGTGAT
CCCAAGATGACTTCCAGGGCCTACGTGGGTCTCTCTTGAGTTCTCATCTCCCGAAGGTGAACTGTACCACTTGTGTTGA
GCACTCCTAGGACCAAAGAGTGTGGGGCTGTGCATGAATCTTAGATGTTTGGGCTGAGATGTCCTTGGGGGTGTGTGCA
AGGCCCCTCACTGCAGAAAAGAACTGAAGGTGGGGAAGAGAAGAGAAGGGAGTGGGCTACTGGCTGGAGAACCCTGGCT
CCAAAAATTTTAGGCATGGGCTGACATTTCTAACTCTCCAGTGGGAAACCATTTAAAGCAGTCAACACATTGACTACGA
AGTGCAGGCACTACTTTGAGTAACTAGACTTGATCGCAGAGGTCCTTGAATGGCCTCCTGGTCTGCATGTGTAACAACA
GTGGTTATTGTTCTCTGGACTCTAATGCTGTAGGTACTAGATGTGACTGTTCTCCAGAGACATTCCTAGGGAGTTGCTA
ATGGTGGTGGTGGTAATTGCTATTATTATTTCATGAACATTGAAATCTTTTATTTTTTTGTAAAGTTGTCTCCTTGAAT
ACTGGACTGTAAAGGTGTGTGGATGTGTTCTAGCAAATTGAGAATTGTAGTTAATTGAGTTCTGGTTATTTAACTTTTT
ACTGTAGTTTGTACTTGTTGCTTGTTCAGAGTCTAGGCAATTTTACATGGGCTTATTTTATCCTTTCTCCCTATCTCCA
TTAGTCTTCAAGATCAGGAAAATGATTTATGTCATTTTAAAATAGAGCCTTCCTCTGTCTCTCATTTTCCTTCTTCTCT
CTCTCTAAGGTATATTATTGCCTACTATATCCTGTGCCCTGTGCTGGAATTTCTCTTGTGCTAATTTTTATTGATAACA
TATGATGGCTTAAAATGTCATCTAGTGTTTAGTAAATTCATAATAGAAAATAACTTTGTTCCCTCACAAATTTTTACAG
ACATTTAAAATTAGCACTTCAATATCCAAGTATTTTGCTTTTTCTTTTCTGGAGAGAAACTAACACCTGTAGGTATTTG
TTGACATGCAAAAAATGCATGCAAGAATTTTAAAATTTTATACCCTATAATTGGTTGTATACTATTAATTAGACCTCTT
CTTTAGCTCTCTTACTGTATACACTCTTCTGTTTTCNCAAATTCTCTCCTCTTTCTCTAAATTCCTCACCCTGTTCCCC

Fig. 6/37

ACCCTTTCCCTGCCTTGTCTCTGGGTTTTTGTCTCTCTTGCCTCATTTTTCCTTCTTTCTCTCTCACTTTCTTCCCCCA
CCCCTTCTCTCTTGTTTACACTCCCCGCTCATGTATGTGCCGCTTCGTCTTTGTGTTTATATCTACCAGGGGAAAGACC
AACCATCTTTATTTTTAAATTTTATTTTACTTTAAGTTCTGGGATACATGTGCAGAATGTGCAGGTTTGTTACATAGGT
AAATGTGTGCCATGGTGGTTTGGTGCACCTATCAGCCCATTACCTAGGTATTAAGCCCCGCATGNGTTAGCTATTTATC
CTGATGCTCTCCTTCCCCTCACTGCCTCCCAACATGCCCTGGTGTGTATTGTTCCCTTCCCTGTGTCATGTGTTCTCAT
TGTTTAGCTCCCACTTACGAGTGAAAACATGTGGTGTTTGGTTATCTGTTCCTGTGTTAGTTTGCTGAGGATGATGGCT
TCTGGCTTCATCCATGTCCCTGCAAAGGACATTATCTCATTCCTTTTTATGGCTGCATAGTATTCCATGGTATATATGT
ACCACATTTTCTTTATTCAGTCTATCATTGATCGGCATTTGGGTTGATTCCATGTCTTTGCTATTGTGAATAGTGCTGC
AATAAACATACGCATGCGTGTATCTTTATAATAGAATGATTTATAATCCTTTGGGTATATACCCAGTAATGGGATTGCT
GGGTCAAATGGTATTTCAGGTTCTAGATCCTTGAGGAATCACCACACTGTCTTCCACAATGGAACCAACCATCTTTTAA
AGTAACAAATGACATCTAAGTGTGAAGTCCGAAGTCAAAGAGCTAGAGAGTCATACAGTTTCAGAGTTGTCGCAGTTTT
GATGATTGATTCTCTGGCAGGGTCGTCCTCATTTTGTACCTGAAAATATAGTTCTAGTGAATTATATCACTTGTCCAAG
CCCACACAATGACCAGGCTTCCTAGCCCTGATTTATCAGTCCAGTCCTTTTCTTAAAAATAGTTTCTGAATATATGCAG
GTAAAAATAATAAATAAGCCATCATAAGTTACAGACATGTATGTCTGCTTCTATGGTGCCAAGGAAAGAAAACAAGGGG
AAGGCATGAACATAAAATAACACAGGTGCACTTATACATTGTTTCTTCAAAAGATCATGAAAGGATAGCTTAGAAATTG
CCAGTAAGAACTATGACAAACAAGCTCAGACAAGTTACTGCAGAGAGGAGTGTACTTAAAGTTAGAAAGCGGGAGAAGT
ACACTTGTCAACAGGCAGAAAAGGAGGAGCTATGGACCTTACAATTGGAAAATGTGATTAAAAAAAAAATAACGAAGCT
GATCCTTCTTGATTTTTCTTGTTTTGAAATTTATGGCAACCAGTACAACAAACCTATTGAATGTATAAATTAAAATTA
GTATACTGTGATTTACTTGGGCTAATATAAATGTAAAACCCTTTAAGCTAGACCAGCTGTAATTATATTCCCAAAGATT
TGATTTTTATCATTATTTACAGCTAATAAGACATTTATGATCTCTTTTTGGTTGTCTCTGTTGAAGCATTGTTGGCAAT
GCTTTCCTGACTTGAAGTTCTCATGTGTGTTGAAATCGAATTAGGAAAATGAGTAAGTAAATAACTTATCCTAAGAGTA
TAATCTCTCCTTTGTGACATAAATTAGAAATCCATTCACATCTGTGGAATAATTCCCAGGTTTGCGACTACACAATCTG
ATATGCACAAGCAAACATGCCAATCTTTTCTCAGTCTAGGAGAATTTGGTCACTTTCTACTTGAACAAAACAAGCTATA
TGTGCTTTTAAATAGATGTATCATTTTCTCAAAATTGGATTATAAAGAGCTGATCTGAGCTGCAATCAGATGGATAATT
AAACAGCAAAGGTAAGAGGCTTCTGACTGCCCATGTTTACAGTGTTAATTGAAAAAATAAAAATATGATTTTTAATCCT
AAAGGTAATTTGACCAATGCACATGTACAATGATGTAAGGTTCTCTCACTTTCCATTTTAATCTCAGGATTGTGGAGGC
ATTTGAACCTAGCTTTCTCACAGAGAATGGAAGAAGTTTGACTGGAGAAATCTGGCCACATTTTACGTTTTTCTGGGGT
GTGTATAGTTGAATGAAAACATGAAGATGCTACTTTTAAACAATTTTTTAATTTTGTTTTTTCTTCCTTCAGCTATGAT
GCTTTATTGTCTCAGATCTGTTTAATCACCTGGAATACTTTTTCGAGTGATTTTTAAAATGGCAAGAAATGTTCCCTTT
TCCATAATGTAGCTGTTGCCTCTGAAATGCCATAGGTGTTTGCATTTTTTAAATCCTCATTTGTGGCAGTTATTACGTT
TTGCTTCATGTTATGGTAATTTGGCATGCAAACATATCTTTTGTACCAAATTTTAAACTCTTTGAGGACAGGGTTCATA
TCATTGTCTTCTTTACCCTGGGCTTTTCACTGGGTTGGTGAAATGTTTGTGGAATCGGTGAATGAAGATAAGACATACA
TTGTCTTCTGAGAGTGGGCAGACATGTGGCGGGCTATTGCTGGATAATGTGCTCATAATATCCTGCAGATTAATTTGGT
TCTTTGATGGAAAATGAAGTGAAAACATGCATCTGCAGTCCAACCTTTTCCCAATGTTATTCAAAATGTAATTTGGT
GATCAATTACATTGAAAATAATTGAGAAATGAGATGACACTTAAATTAGTTGAAGACAATTGTGGATTTTGCCCTTGGT
TCTTTGGATAAGTAAACTTTTAGTGTTTTCTCAGAGATTTACAAAATTCCAGGGGCTGTGTATTCTTGCCTATAGGACA
TCCAAATCCTGAGGCTTTTCTTCTTATCATTTCTCATTTAACTGCTTATTAATTCTTTCCAAGAGAAGGAATAAGAAAC
ATGAATTTTTGCTGTTAATTGAACCATCCCTTAAAACTGTTTGGACTGTCTTTTGGGCTATTGAGAAAAACTATTTGGT
CACTTTTCCTGTTTTTTTGAGAGTCCAGGTAGAAGAGGTCTTTATTATTGTCATTACATAGTTCATAATAATATTTCTG
TTTCACTTTTACGTAGCATAACTTTTCAACAAACCTGGCAAAACATCATCCAGGCATTCTGGTCAGTAAAGATCCTGTA
TCAGTTGTGCTGTAAGACATTATTGAGCCGATAATGTAACTGGTCCAGTTTCCCCCTTTTGTCTCTGTAGAGAGTTCGG
CAGCATAGCAGAGGGTCCCATGGAAGTAGGGATAAAAGGGAATTCTTCTTTGGCTTTTAAAAATCTCTCAACTCCATTC
AAACTTCTGCAAGTTTTCCTCCTTGGGAGATATGGAGTGGTTCCAACATCCTTAATATCAGTTGCCTTTTGGTCAAATT
CCACCTTTAATCCCTTCTAAGAATGGGAAAATAAAGACATCTATTATGACGTCCTAAAGGCCTGTAGTTATTGAGAGAG
CGGCCAAGACTAGAATTATAACTTGGGCCTCTGCTATTATGAATATATTGCTTGCTGTGAACTCACTTGGAGTAAACTT
GTGTTATTATAGAAGTAGCAAAGAGGCCAAAAAAGAGACAGGGGCAAAAAGACATGATCATCACAAAGAAAAGATAAAT
GTTTGAGCTGATGGATATCCCAATTTTCCTGACTTGATCATTATACATTGTGTACAGGTATTAAAATATCACATGTACC
TCCCAAATATGTACAACTATTACATGTCAATAAAAACAGTTTAAAAAGTGATCAAAAACAGTAGCAGAAATATATTCCT
TATGTAATTTTCATCGCATTTGAGCATCTAGGATTTTTGACAAGACACTGGGCTTCCGTCTACCATAGGGTGCTTAGGA
GGCCTAGTGATCTCCAGAACTGTGGGGTGTCAGTTCAAGAGTCTGCTCCAAGAATACATTAAGTGCTTACTTAATGCAG
AGCACTATCTTTAATGCTTTGAAGATTATAAGTTCTATTTTTGACCCATCTTCTATGTTGGGCCATTTATTTTTATGAT
TTTTGCTTCTGCTTTGTCATTTATATGTAGGCGACAGTAATAGTAATGGCCTGGTAACCTTACAGGGAACTGCAGGTTG
ATGGTGGGGAAGCATCTTATTCTAATATACCCATATAAAGACATAAAGATAGCATTTATATATTGTAGTCAAATCATT
GGTTCATCCTATTTTCTGCAGTTGAAGATAGATATCACCATGTATATGGCCAATTATCTTTATCCAGTTCAATTTGGCC
AGGTCAATGAAACTTGTATTTATGTCATACTCTTGTGTCATGGGAGATAGAAGAAGTATAATAGTGGCCCTAATTTACT
TTTGGTAAAATTGAGGTTAAGTGATTTTCCCAAATTTATTTTGATATAAAGTAAATTGCAGATACAAGTTTTTTGGTCT
CTAACCTTGTGTTATTTAATTGTTCCACAAAGAAATGCTGCATATTAAAATTATGGTTTTAAATGGCTCACTCAGCCCT
TTTGTCCCTCCCTTCTCCAAGTAAAACAACTAACCCCTATTTTTCAGTTTGTTGTGAATTCAGTTTGTCCAAACTAGGC
TGGGGATAGGTTAATTAAATAATTATATAGTGATTAACATGGGGTTAGAATTTATGTCAGATTGGGGCAAAACCACCTT
TTGAATACCTAGAAGATAGTGAAATGTACTTAATACTAACATTGTCATGAATATCAATCACAGGTTTAGAAGTCTTTTG

Fig. 6.38

ATATATATGAGCTAAATATGGGGTTGAATCCCCACCAATCATATCTTAACAGATTTTTTAAAAAGGTAAGTATCTGAA
TCAGCTGCTTTATTTTATTTGTCTCTTTCTCATAAAAATGACAATAAAATTATGGTATGTGAAC CTGATTATTTAGA
TTCCAGTTAAACAGGATTTTACTTTAGTTTCTTTTTTTTTTTTTACTGAAAAAAAATTTTATTGACTTGTTTTTTGGTG
TATATAGTTCTATATATTTTAACACATGTATACATTCATATAACCATCACCACAATCATATGAAAACTCTTTTATAAAC
CCTCAAACTCCCACATATGACTTCTTTTTTTTTCTTTTTATTTATTTATTATTATCATACTTTAAGTTTTAGGGTACAT
GTGCACAATGTGCAGGTTAGTTACATATGTATACATACCATTTGACGCAGCCATCCCGTCACTGGGTATATACCCAAAG
GACTACAAATCATACTGCCATAAAGCCAGGAGAATTTCTTGAGCCCAGGAGTTTAAGACCAAGCTTGGCAATATAGCAA
GAGCTTATCCCTAATTTTATTTTTTATTTTATTTATTTTTTATTTTATTTATTATTATTATACTTTAAGTTTTAGGGTA
CATGTGCACAATGTGCAGGTTAGTTACATATGTATACATGTGCCATGCTGGTGCGCTGCACCCACTAACTCGTCATCTA
GCATTAGGTATATCTCCCAGTGCTATCCCTCCCCCCTCCCCCCACCCCACAACAGTCCCCAGAGTGTGATGTTCCCCTT
CCTGTGTCCATGTGTTCTCATTGTTCAATTCCCACCTATGAGTGAGAATATGCGGTGTTTGGTTTTTTGTTCTTGCGAT
AGTTTACTGAGAATGATGATTTCCAATTATTATGAAGAGAGAGAATAATGGTTTCTCACTTTTCAATTCCATTTAGAAG
GAGGTTGTTTCTTTCAGAACACCAAATGAAGCTTTCTCAGTGGCCATCCTATAGGACCTTTGCACTTGAATCTCTGGTT
TCTGAATTTGGGACATTTTAAAATCCTAAGATTTTTCCAGGTGATCTTTAAAAATGGGATCTAGGGAGATTTTAGCAAA
TTAATGGTTTCTGTGTTTAACTCTTTTAAAACATATTTTCATGATCGTGTGTGTGTGTGTGTGTGTGTGTGTGTGCGNG
GGCAGTTGGGGGGGTGGGTGAAGGGGGATATGGGGAGAACAAACAATAACCAAAGAAACAATAGTGGAACTTAAAAATA
TTTTCTACTAACTTATTTGCTAATAATTATTCAGGCAGCTTTATGAAAGCTCTTTGGAAATTCTAGAAGTGTTTCCATT
TCAGGCTTAATATATTTGGATCATAAATAAATATCAGATACCTTTTGGAGGCATTAGAAACTAAACATTATGCAAAGGC
TACCCTCTGTTGCGTCAGGAGCTTGAATTGTTTTCATTAAAATATCTGCTATGAAAGCACTGAGATTAGATGGGATGCT
ATCAAATGTCAGAGATTTGTATTCTTGGTAGAAACTGAGATTTCATTTTCCTTCATCCCATTCTGATGCTGGCTTCCCT
GAAGCAACACTCCTGTTCCAGATTTGTATGCTTGAGGTAAGTCAGAAAAGGAATTTCGGTGAGGCATGAGTTTGTTGAT
GAAACGTGGGGGAAAAACCAAATGGACATCTTCAGAATGAAAGTGTACGTCTTTGTCTGTCTGAATGTGTGAGAAAGAAG
AACACTGAACACAGTCTAAACCTCCTGCTGGTGTGATTATTGAGTAGTGTTGATGGCCAAAATATGAATGAAGGTTTTT
CTGTTGCAAAATGCTTTATGTTATGTGCAGGGCAGACATCTGTGTGCCTGCCTTAAATTTATGAACTAATAACATTCTG
TTCCAAGAAATCCTGTCAGGTCTTTAACGGTACCATTTGTTCTGAGTTATTCTGGTAAATGAATGATTTTGCTTTTAA
GTAATTATTTTTTGAATTTTTAAATATAAAGTCACATATGGTTTAATGTATGGAGAGGATGCCTTTATCATCAATGAAA
ACTTTAAGAATTGACTGATTGCATTTTATTTTAACAAAATATCATTCATTATTTTCTTCTATTTGGAACAGATGTAAAT
GTTCCAATCTATTTGGATTCAAATGAATTTTGAATCAAATAGATTTAAAATGAATCTATTTGAATCAACAAAATAGA
TTCAAGCAAGTTTTATGAGTGAGATTACAGATGAATGATAATAAGCAAAATCATGAGAAAACCCAACCCAAATAATTGA
GTTAGACTATACTATAAACAAAGTAAATTTAAAAACATATATCCTCAAAGAACTGTGGCCAGTAAGATAGATACTCTCT
GAGGCTACCCTCCTAGTATAGTAACGGTAATTCTGCTGAAACCAATTAGGCACTGTTGAAAGCAACTTCTCGCTGCCGA
TGAAGGGACTGGATCCTGTAGCTTGGTGTCCTTGTCAAGTCCTCAGTGTGTACTCAGCTTGCCCCTGCTAATACACACT
GGTCTTAAATAAAACAGAGTGGCAAATATTTAGAGTGAGTTTTATGTGTCTTTGGGATTTTTCCTTCCCCGCCATTGGT
AAATAGCACGTTTCCTCTGCAGATCTGTGACCTTTGAGATAACTTCCCTTGTTAAACACACACTGATTTGTGTGGGTAT
TTGTTTTCTTTCTTTTTTTTTTCAAAAGCTATTCCTTCTTTTCTACTTTATATTCAGTTGCTTTCAACACAGAGTAAAG
TCTTCTGATGAATCTCTTGTCTGTAGTTTTGAAAGGAGGGGAGAAGCAAAGGAATTAGCAATCACAAAGATAAACCTGC
AAAGGCAAACTAAGTAGAAACATGTTTTTCCGTTGCAAATTATGCTTAACTACTATAGGCTGTAATCCCTATGCTGACA
TATCTCAGAATAAAATGTAAGTTGCTTGAGATGCTATTCTGAAGCATGTGATATGGTTTTATTGATTGATAAATTTATC
CATATGATGATAGTTGTAGATTTTCAGAGGCCCCATATGGACCATTTGAAATGAAAATGTTATATTGGCAATGGATGAG
AACATGCCACTTGCCCTGCTCCATACAAACTTTGATTCCTAGCAATCAGCACATGTTAGAGAGCTGGAGGCCACGGTAT
GGTGTGCAAGTGCTCCTGTGCTGAAGTGACACCAGAACAATCACCACATTGCCATCAGGCCGTCCATCTGAGGTAGGGT
TTTCCTTCTTGTTTCAATCTTTATCATTCCTGGAGAATTTGCCAAGGCCCCCAGGGCAGTGCTGAGGCCTCCAGCGCCC
CCTACAAATCTCTTTTTCTGTCCCTTCAACATTTTCAGGTCTAACTACCTGTAGTTTTCCTCTCTAATTTCTGGGCCAA
AGCTTGGCAGGGGGCAGGCGCAGAATTAGGTTGAAGAGGCCAGTATGAGCAGGCATACCAAGGTCCATTGTGCTATACC
AGAGGTGTTACATTAGACTAATGAAGGGATTATAGAAACTTAGCTCTCCATCTGAATTCTCTTATTAACACATCACTGT
GAATCAGCCTGCTGCTTTCGGTGTTGTGTATTTTTTCCCTTTGTTACTTCTGTTACTGCTAACGATATTGGTATCATTT
GTTGTATCAATGCAACTGACTTGTACTTCAAATTAATATCTCAACCAACCTAGAATTTCTTGTCTAGCTATGGTAGGTA
GTATGGGGTGGTAGTGGTGTTGTCTCAGGCTAGTATATGATAATATGATTTTGAAGTCTGTTTTCCCCCCCATTTAACG
AACTAGTGTGAACATCTATCCATGCCTTTTAAACACTTTTCTCCAAGATAATTTTTTATAGTTTTTTAATGGTTAAATA
ACATTAACTTAGCCAATGAAATTTAAAATATTTTGCTACTGTAAAAATTATTGTGTATCTCCTGGTAGTTAAATCAGGA
TTATTTCCTTAGGATGCAGAGCTTGTATGTTAAGGAGTATAGTTATTCATAAAGGTTTGATTTTTTTGGCCAAATTGCT
CTCCAGAAAGTTTTTTTCCCCTTCAGTTTATTCTCCTACCAGCAGTGCATGAGAGGGCACATTTTCCCGTATCTTAAGT
AGTGTTGTTTTCTAAAAATGTTGCCAATCTGATATGGGGAAAATGGCATTTCACTGTGGTTTTTCTGTGTTTGTTAAGT
CACTAGTGAGGTTGGGTAGTTTTATCCTTTGCAAATTGCCTATCAATGTTCCTTACTTATTTTTCTTTTGAGATGCTTA
TTTTCCAATTAATTTTACTGACAATTTTTATATAGTACAGATAGTAATCCATGTGTCTATAGGTTGTTTATAATGTAAA
TATTTTTTTCCAAGTTTCTTAGTCACTTTTTGACTTTTTCCCTTGGGTATATTTTTACATGAGAAGTTTTTGTGCATGT
GATTGAGTCTTTTTTAATTGTGGTAAGAACATTTAACATGAGACTTGCCCTTTAAAATGTGTTTATGTCTATAATACAG
TATTATTAACTATGGGCATAATGTTGCCCAGCAAATCTCTAGGACTTAATCATTTACATAACTGGAACTTTATACCCT
CTGAATAGCAAATCCCCATTTCCCCCTTCCCCAGCCCCTGGGCAGTGGTTGAGTCTTTGATGTTTCCTTTTAAAGTTT
CTGCCTTTGGAGTTAGTTTAGAAATGACTTCATCATCCCAAGATCACACACACTTTTCCTACATTTTCTTCCAGTTTCT

Fig. 6.39

TTATTTTACATGCAAATCTTAATCCATCTGGAATTTATTTTGTTGTATAGGAGTGCAAGAATTTAACTTTATATTTTTC
TCAGATAGTTTTCCACTTGCCAGTGGAATAATGATTTGTTGAATAATCTATCCTTTGCTTTTTAAGTTTTACCTTGAAA
AAACATAATATAAAATTTTGGATCTAGTTTTTTAATATAATTCATTGATTTCTCTTTTTGTTGGACAGCATAACATTGT
TTTAATTACTGTAATGCAGTTAAACATCTGATAGCTTGAATCATTCTTATCTTTTTCAAACATTTCTTGGCAGTTTCTT
TCATCATCTCCTGACCAGATGGTCGTCATAATGTCTTAATTGCTCATTCTACCATTGGTCTCACTTGCTTCTAATCCAT
TCACAACAAAGTTGGCTGAATTGTTGTTCTAAAACACAAATTGGATCACGTTACGCCCTGCTTGTTGTGTATACATACT
TCCAGCTATTTTTATCAACTAAAAATGAGCCCTTTGCCTATAACAAGATTTTAACCTGAAGTCCAAGCAATTTCTGAAC
TTCAGAGTGTTTGTAGACACCATTTCGGTGATTTTTTTTTTTTTTTTTCTGAGTAGAGGATTGATAGCATCATAGATTTT
GAAAGAGCCATGACTCCAAAGCATTAATAACCTCTGTGCCACAGGAAGAAAGTCAGACCCCCCAGAACGGCTTGTCAGT
AGCAGGTCCTCCCCTGGTTGACATTTCTTTCTTACCTGCCTGCCCTCTCCCTGACCACTCTTCCACATCCCCACCCTTC
CCCTCCTGGACTGCTTGCAATTGTCTATCCAGTCTGCTGTTTCACACCCCAGTGCCTTTTTACATGTTATTCCTTCTGC
CAAAGTGTTCTCCCACACATACCTCGCCCATCTGGAAAATGGTTCCTTGTCCTTCAAACAACAATCAAAGAGCCTCCTC
CTCTATGAAACTTTGTCTGATCCCCTTAAGCAATGCTGATCTCTCTCCTTTATTTTTAACCACTGTACTTAATCTGTAT
TTTACCGTGACTCTTCTACTCTTCCTCCTCTACTGGTACTATAATATCTTTGGGAATAAGGACTGTGTTTTTGTAACCA
CAGAGCCCACTGCCTGGCATAGCATAGGCACTCAGTGAATGCTTGATGAACAGAAGAATGGATGCAAACAATGAATGTA
TGGCAGGACATAGCCCTGGTGAAATCACTGGCAGGGGCTTGTGTGAAGTAACTGCATAAGAAAAAAACAGCATGCTGTT
AGAGGTGAAGGGACCAGCTTTGAGTTTAACAGAAGTAAGGACAGAATGGGTGAAGCCATAATGTCAACTTTGAAATATC
ACCATTTATTAAGAAACCACATTTGAAGTTCTAGGATCCTTAAATGAAGGCGCTTTTCACCAAATACTTTTCTAAATTT
CCTGGGGTGTTTATAACATGGAGGACCTATTTCCTGAGCTACCAGAGTCCTAACACATACCTAATTATGAGTTGGTCAC
CAAGAGTTATCAGTAATCACAAGTAATGAAAGCATGGCTTTGGGTGAGTGGGTGGGTAGGGTGGGTGAGGTGGGATATG
CCATGTTTTGGACCAAAGCTGTCCACATTGATGTGTAGCCATTGTTTTCATGATTCTAGCACCCAGTGGATGTTGAGTA
AATATTTTGTGAGTAATTGAATGCTGAGTGTGTAGCTGGGGGTATGACAGCCAGCTAACTGTCATGTCTACTTTCTCAG
CTCTCTGAGATGGCAATGCTAATTTTGCTGGAGAAAGTAGCATCACTGTTTTACTTGGTTCCCTCTCTTCATACTGCCT
AATTTTAGCTAGTTCTTATTATTACTTGCTTTGTTTACTTCTTGGATTCTTTATCGCATTACCTGTGGTGTCACCCACT
GTCTTACTCTGGGCAAATGAACCTTGTTTTTTTGAGAATGTTAAGTTCATCTGACATAAGCCGCTCAATTTCACTCCTC
AAATTCTTCTACATCAGCATTCTTTTCTCTACCCTGGGGAAAAAGAACCTCCTCATTTAAGTGTGCTTTCTCTTCTTCT
TAAATATTGCCTAAGCAACTTTTTAACTTTTAATCTCTCATTGTCCATTTACCTCTTTCTTTGTTTGCAGACATCATTA
GAATCTCCATCCTTGAAACAACTCAATAAACAAAAATTTTGCTTGACTTTACTAGTTGAATACCTTAACGTTCACTTTT
CTTTTTACCTCCAAACTTCTTGAATGACCTATGACCACTATCTACACCTTTTCTTCATACACTGAGGTCTGGAAATCTT
TATTACCTGGTTTCTTCTCTCAGTCTCCAAATTATTAAAAAGTCAATTTCTCAGTTTTCATTTTTCTTCACCTCTTGAT
AACACTTGAAACCATTAAAATTCCCCTTTATTTTGAATGGGCTCTTTCTTAATGTCTATCACACTCAACTGTCTATTTG
CTCGTATCTTTCTGTTTTATTTTCTGTTTCTTCCGTGGTCCTCTTTCTGATGTCCTGAGAGTGGATATTAAGTTGCACC
ATGTCTGCAGGGATGACACCCCAACCCTAACCTTCAAGTCAGGCCTCTTTCCTATGTTCAGATCTACTGTTTCTGGAAA
GCTCTACCATCTGCCCCACAAAAGCTTCAACATTAATAGAAATTCCGTATAATTTAAAACAAAATTCCACCTATATTTT
CTTTCAAATAAATGTTTAATTTGAAATATTTACATTAATGATGCAACCATTTTTCTATCCACCCAAACTTGAGACCTAA
GAATGAGTTGTTTGCTGATTCTTCTCTCATAGCCAACCATTTCAATGTTCTCTGATTTCTACTGTTACCCAGGCTTTGC
TTTACATTCCCACTTTTATGGTGCTTATCTAAACCCTTACTTTTGGCCTTTAATATTGTATTGGCTATTTATTTATTAT
TTTATTATTATACTTTAATTTCTGGGATACATGTGCAGAACGTGCAGGTTTGTTACATAGGTATACACGTGTTGTGGTG
GTTTGCTGCACCTATCAACCGTCATCTACATTAGGTATTTCCTCTATCCCTCCCCTAGTCCCCCCACCCCCTGACAGGC
CCTGGTGTGTGATGGTCCCCTCCCTGTGTCCATGTGTTCTCATCGTTCAACTCCCACTTATGAGTGAGAACACGTGGTG
TTTGGTTTTCTGTTCTTATGTTAGTTTGTTGAGAATGATGGTGTCCAGCTTCATCCGTGTCCCTGAAAAGGACATGAAC
TCATCCTTTTTTATGACCGCATAGTATTCCATGGTATATATGTGCCACATTTTCTTTATCCAGTCTATCATTGATGGGC
ATTTGGGTTGGTTCCAAGTCTTTGCTATTGTGAACAGTGCCACAATAAACATACGCGTGCATGTGTCTTTATAGCAGCA
TGATTTATAGTCCTTTGGGTATATACCCAGTAATAGGAATGCTGGGTCAAATGGTGTATCTGGTTCTAGATCCTTGAGG
GATCACCACACTGTCTTCCACAATGATTGAACTAATTTACACTCCCACCAACAGTGTAAAAGCATTCCTATTTCTCCAC
ATCCACTCCAGCATCTGCTGTTTCCTGACTTTTTAATGATTGCTATTCTAATTGGCATGAGATGGTATCTCATTGTGGT
TTTGATTTGCGTTTCTCTAATGACCAGTGATGATGAGCTTTTTTTTCATACGTTTGCAGGGATGGTATCTCATTGTGGT
TGAGAAGTGTCTGTTCATATTCTTCACCCTCTTTTTGATGGGGTTGTTTGGTTTCTTTCTTGTAAATTTGTTTAAGTTC
CTTGTAGATTCTGAATATTAGTCCTTTGTCAGATGGATAGATTGCAAAAATTTTCTCCCACTCTGTAGGGTGCCTGTTC
ACTCTGATGATAGTTTCTTTTGCTGTGCAGAAGCTCTTTAGTTTAATTAGATCCCATTTGTCTATTTTGGCTTTTGTTG
CCATTGCTTTTGGTGTTTTAGTCATGAAATCTTTGCCCATGCCTATATCCTCAATGGTATTGCCTAGGTTTTCTTCTAG
GCTTTTTATGGTTTTAGGTCTTACGTGTAGGTCTTCAATCCATTTTGAATTAATTTTTGATAAGGGGTAAGGAAGGGGT
CCAGTTTCAGTTTTCTGCTTATGGCTAGCCAGTTTTCCCAACACCATTTATTAAATAGGGAATCCTTTCCCCATTGCTT
GTTTTTGTCAGGTTTGTCAAAGATCAGATGGTTGTAGATGTGTGGTGTTATTTCTGAGCCTCTGTTCTGTTCCATTGGT
CTATATATCTGTTTTGGTGCCAGTACCGTGCTATTTTGGTTACTGTAGCCTTGTAGTATAGTTTGAAGTCAGGTAGCGT
GATGCCTCCAGTTTGTTCTTTTTGCTTAGGATTGTCTTGGCTATACAGGCTCTTTTTTGGTTCCATAAAGATGCTTTTC
CTGGCTTTAGTTGTTTCTTCTCTAGGATATTCTTTACATCGCAACCAGAATAAGTCATCAAAGGTCCAATTATGCCACA
TTCTTGCTCAAAGATCTTCAATGAATCTTGATTTCTATGTGATAATGGTTAATTTCCTACATGATTAACATGTACTCTG
AAGCTAGACTGCCCGGATTTTGATCCTGGTCCCACTACTTCCTAGTTTTGTAACCTTGGAAAAATTATTCAACTCCTTT
GTGCTTTAGTTGCCTCGGTGAAAAATGGGGATAATCATAGTGCTGCCTTATAGGGTTGTTGTAATAATTAAATGATTAT

Fig. 6.140

CCTGCACATAGTAAACAGTCAATGAATTTATGCTATTATTATTAGTCTGCTATTTGTGGGCTTTCATATTTTGTCTCAA
ATCCAACCTTCTCTTTACTCACTATTTCTAAACACATTGTGCATTTTTCAATATATATGCATTTCAATATCTATCTTTT
GCTTCCTCTGCCTGTAATACCCTTTTCTACGCCCTATCTCTCCTGTGTCTTTAGAAATTCTATCAGTTCTTCAAATGAA
CCTCAAATAGACTTCCTCCACAATCCTTCACCTATCATACCAGGATTGTTTATGTTTCTGAAATTTCACAGCCTATCTT
ATACTTTTCCTGTTTACTTGATTCATGTTGGCTTAGTTTAATTACACACGAAGAAATCTTGTGTTGCCTGATGGACTGT
AAACTCCTTGAAAACAGGGTTTGTGTTCATTTTTTTTGTATTCTAAAGTAACAAGGAAAGTTCTCCAAACATAAATGTA
ATAGGTATTTGTTGAATGAATATAGAAGGAAGGGTGTAGGTTTTGGATAAGAAATCATCATTATCAAACTAGTCAAAAA
TGACAAGAGTATTGTTTTGGATGCATAAGTATAGAATTAGTACCTCTCACTCATCCCCCACTAAGACGTTTTTGTCGTT
AGCTTGCTGCTAACTGGGCTCTGGCTGTTACCTCGCAAAGACTCTGAAGTAGGAAAGAGCTTGGCACATTTAGAAACTC
ACAGATCATCAATGCTGTAGTGAGGTGAAGGAGGGAGAAAGTACCATGGGTTGAAGTTAGAGAGTTGGAGAGAGATAGG
ATAGGTCACTAGAACTTTCAGGCCAAGTTATGCAGTTTAGGGTTTTTTTTTTTTTTTGTTTTGTTTTTAAACAATGGAAA
GCCTTTGAAGGGTTTTAAGCTGGGGAATAAAAAGATAATACTTTACTTTTAAAATTGCACCCAGGATGGATGGAAGACA
GAGAGTGGGAAGATGAGTGAAAGCAGAGAAAACAGTTGGGCACTCTTGTAGGTGAGAGACTGCATGGCCGGGGCTCAAC
TGGCAACAGTGGAGATGGAGAGAGGTGGGTGGAATTGAGATTTATTTTGAAAGTAGAATGGACAGGATTTGCTGAAGAA
ATGTTAGGGAAAAGAAAGAAAGCAATTTGATATGATGTCTCAGTTTCTCACTCAAACATCTACGTGGATGTTGTGGCCA
TATTTCTTATTTAACTTATGGATGAAAGAAGGTTTCATATAGCAGATAATTTCCAACAATTCTTAGGCATCAATTTACC
TGACAATAGAAAACTCTGATGCCATTTGGGATAGAATGAATTGTTCCTATATGACTTCCAGAGACTGAGTCATTGTGGG
TGCTTGTCATGCAGTACTCACTGAGGTGTAGGAGGATAGCTTCATGGAGAAGATATATCTTGAGGTGGATCTAGAATGA
ATATCAAGCTAAATTTAAAATTATTAAGGATGGAATGAAGTTTATATTCATTATCCACAGTCCATTTGTATCAATTTTC
TGGGATGTCTATTATCCTGTAAAAAACATGTATTTCCGCAGTTATAAGAGCTTTGATATTGGTGTGAAAACAATGGTCC
CTAATTAAGCCATAAGGTATTTTGGGAATTTAAACAAATGTTTGGTGGTTATCAACTGGGAACTTCTGGAGAGGTGAAA
TATTGTATCGGGGACGCATTGTTCTTTTTAAAGGCCACACGGTGTTCTACTTATATGTCATATCATGTACATAGCCAGT
TCCTTCCTGGTGGACATTTAGGTTGTCTCAACCTTTTCCTATCTCCAACAGTGCATGCTTGTGCAAGTATATCCGTAGG
ACAAAATCTTAAGGATAGAATTATTAGATAAAAGCAGTTACCAAATTTACCAATCTTCCTTTCCAGAAGATTGTCTGGG
AATGACTGCTTTTCTTACCACCCTACCAACACAGGTGCTAATCTCATAGGAAAAAAAATGCTACTTTGTTTTAATTTTA
ATTCATGTTTCTTTTGTCAGGAGTACAATCAAGCACCTTCCTCCTATTAATATGTTTATTTCCTCTTCTCACTTTTAAC
CATTCTTCAACCTCTACAATTATGAGAAAGTAATGACTGTCAAAAAAAAAATTGCTCATTTTTTCTGACATCTTTCAAG
GCCCTGAATAGACGTCCTAATTTCCAGGTCTGTGTAGACTGACTTGGGTTACTCAGGTAATGGCCTCTCTTCTGTTGAT
GAACACACGTATTGAAGCATATATATGCCAGGCTCAGTACTAGACACAAGGGGTACAGTCAATGAACAAAATACACACA
ATATTCTACCCTCATAGAGCTTACATTTTAAAGGGGGAAGCATACAAAAAATAAATTAGCTAAAAATATAAATATCAAG
TGGTAATAGTACCACACAGAAGAATAAAGCAGAGTAAGGGTTTAGATGGTGAAGATAGGAGAGCTGCTCTTTTACATGA
GGTTAACAGGAAAGGCATTTCCAAGTACTTCTCCCTGCTTCTTTCTCATCTGTGTGCTCTAGTTTTACTCTCCCTCCCT
TGTTTGATCCCTATTATTACTTGCAAGTGTAAATTCCCTAATGCAGAACATGGTTAGCATTTGGTTAATGGCTTTCCCG
TAATAATTGCATTAAAATGATTTCTCTCCACTATGAATTATCTGACATGTCAGAACAGACGAATGCTATCTAAAGGCTT
TTTAAAATCTGTTAAATTTATAGGGCATATTCCAGCCCTCACCAAGGGTCACTTCACTCCATTCTCAGATAGTGCCCAC
TGTCCTGCATTTGCCTGCTGTCAATCACAAAAGAGATGGCTTCTTAATGAGGCTGGTTTATGACTTTTTTCCTTAAGAC
AAAGTCAGTCTTCTTTTGCAAAAGTTGTTCTAATGAAGGAAAGTAGAAATAAAAATTCATCATAGCTTCTATGGCCAGA
CATAAAATGTCTACAGCAGGATTGATATGGAAACATAAGCTTTTATTAATTTGTTTATCTGGATGCTTCTGAAGCTAGA
AAGAAAGACTTTCACCATGGAAGCACTGGCAACTGAATTTCCATAATGGATTCAAAGATCTAAAGAATATCCTCAATTT
ACATATTCTTTCTGAATTTATGTTCAAAGAAAGGGTATTAATATAAACATAAAGTAAAATAAGACAAAGCCCAAGTGTA
TTAAGACTATTCAAGGCCTGCCATGCAAATTGCAGTGGAAAAGTCTACCAGTAGGTTATTGGGAAACAGAGAGAAACTT
GGAGTCCAAAGATAGGAGAGGATACCCACCACTAACTTTCAATGAAACCACAAGCTGGCCACTTAGCTTTTCTTGTGCT
GTAGAGTCAAATGTGAAACAATAGGCTTTATTTATTTAATACTTTGTATAAGGCACTTTGCTCAGTACATTATATATTG
TCTCATCCTCATAGTGAGCCTGAAGGGTAGTAATTTCATTGTACCTTACAGATGAATAAACTTAGACTTAGAGACCGGT
CAAATAGCCTGCCCAAAACAACCAGTTAATAAATGGAATTGGGATTTAAACTTAGATTTGTCTGATTCCAAAGCTTGTG
CCCAACCAGTGTTTATTGAGTACCTTCCAAAGAGCCAAGCAACAGTTTGAAATAGGTTCACATATGTTCAACTATCACA
ACAACCAGATAGAGTAGATATTCTGTTGAAGATGAGGAAATGATGTGGGGGAGAAAAAGTGATTGTGTGGGGGAGAAAA
AGTGATTGTGTTGAGGTCACACATCTAGAGTGGTCGAGTCAGAATATGTGTGAACTCAAGACCTCTAGCTCCAAACCTA
TGAATTTTGTTTTTAAAACATGACTATAGTCTATTCTCTGTACAATGTTCATAATATTTTTTCTGCCAGTTGCCTGCTC
CCTTTAGGTAAAGGGATAATTAGCAGAGATTCCTTGCAGAAAAGTGTCAAATATCAGCACTTAAAAACAGTGCTGAATT
TTCCCGTTATTTAGCCCATTACTTCATTGAGCCTAATTTCATGCTTCTAAAAACAGCATAAGTTCTGTGGGTAGTGTTC
AGTATGCTTCAGTGAACCGAATGCATCCTAGTGGCCTGAGAAGACTCCTACTGCTTCTAAACATGTATGAATAATGGTT
GCCACCTGCAAGTAGCTTAGGCAGTGGGCAATCATACTTCAATTCTAAAGGGTGTGGAAGGGATGAGTATTTTCTGTTT
GAAGCTCAAGCTAGATTAAATGAATTCTTGATCTTAATCTACTTTGAACTCTACTTGGAACACATCATGAGTTGTTTTG
GCTTACTATTAATTTTTAAATACAAATACAGTGCTCTTGTATTGAAAGCATAGGATTTTGTGTAGGAGAAAATTTGAAT
GTCTTGAAAACATTCAAAGGAGAGCTCAGGGAAATAAATGAAAGCTGGTGGATTTCTAAAAATCTTTATTGAGGATTAA
TATTAGAAACTTGCTGTACAGTCTAACTGATTTTTGACTTTGTTTCTGGGCTATTGGTTTCATATAAGACACTATTAGT
AATTTCAGAACAAATAATATGGCCACATTTCTTGTTCCTAATAAATTGGTACTACTTGGGATCAATGGATGATTGTTGT
CATTCCCCAAAAGATTTTTTAACAGCAGAACCAGAAAACTAATTCACAAATTATCAATATTCAGCACTTTGATAAATTC
AGATGAATTTGCCTACCTAAAGAATGCTACCTGAAAAGCTTCTCTGGCAGGCTTCTCCAGAGTTTCATTATCTACTCT

Fig. 6.41

GAACTTTTGTTTACATAGCAATCATTTCTGCTGTGTTCCTTTTCCCTACTAGCCTTGGTAGGCTTCTTAGCTGAATTGT
CCTGAAACCTATAAACCAGCCCTGGAGGCTCTGAAAAATTAAAGATCTGTCTTTTTTGTTCTGTTTAATAAATGTTAGC
TTAAGAAAGTCTGCAATGGAAGAACACTCAACTTGTCCTAAATGATTCTCTCATTTATTCAAGTTGCAAATAGAAAGAG
GTATTTCCCAATTTGCAATAAAATATTGGACTTTAATTTCTAAAAAAAAATCTTGAAAGCTACATACTCCATAGACTTC
TAAGCAAAGAGAGTCAAGAGACATTCATCTTCTTGAATCTTCATTAATCTTCACGTCCTAAATAATTCTCTCATTTATT
CAAGTTGCAAATAGAAAGAGGTATTCCCCAATTAGAAATAAAATATTGGGCTTCAGTTTCAAAAAAAAATCTTGAAAGC
TACATGCTCCATAGACTTCTAAGCAAAGAGAGTCAAGAGACAATCATCTTCATAACTAACACCAATTGTCATAAAGCTT
CCAAATGTAAACCTAAACTTTTTGTTAGGAGTAAAAATAAAAAAGCCAAACAAATGAAAAGCTGTGAACTTTCTAAAAC
ATCTTAAAGATTCTCTGGAAATTTAAACATTTAAGTTATATGTTAAGTTGTGTCTATCAAGCAGGTACTTTAGAAAAAG
GGAAGATTTAAACAATTTAAATATATGCTCTAGTTGTTTGATTTAAAATGCTTTTTGTGCCAAAGAAATTCAGGATAGA
GATTTAGTAATCAGAGTTGAAAAATGCATAACACATTGTTCTAGTAATTCCCATCATTCAAAAGGAACCATCTGTACTG
AATATTCTTAGATAGTTTTTCAAGTTCGGTTTACATTGCAGACATAAAGGAACTACTTTTGTATCTCTTAGACAACAA
TTCTGTTATAGAAGTTTACAGGCTAATGGCAAACACATCTCATAATTGTCCTTCCAGTTTCTTGACCCATGTTTACTTC
CCTTTAATTTCATGCCATAAGTCAGTGCTCTTGACAAAGTATACTCTGAACATATTTATAAATCATTATTTTTTCCAAG
CAGTTAATCTCTAACTCCCTTTTTCATTTCTGTATCTCCATCAGCATTTTCTTTGCAGGGTTCAATACTCTTAATTTGA
CATACAGACCCATCCCTGAGAGCAAGGGAGAGAGAGGAAAGCCCTGGCCTTTCTTTTTGTACCTTGATTTTTCCATTC
AAACTCATCATTGTTGGTGCATTGAAATCTGGAGGTTTGAGTGAGAGATGGAATCAGAGAGATTTAGGAATGGATTCAG
ATTCTACAACTAAAAACCATTAGGATGCCTATGAGCTTTGTTTTCTGCATAATATCTGAATTACAAATTGTATTTAACA
AGTAAAACTAAGTTGTGTCCGACTAATTGAAAACCACTTTGGTTAATGTTACCTCTTTTTGTGTCCATTTAAATCCATT
AAATCTTTCTTACTTTTGCCTTTAAAATTAGAGTAATCTATACAATTCATGCTACTGACTCTGCCTTTTAAAACACACA
AATATTAAAAAAAAAAGAGACATGTTCTGGTGTCTTCCCCTCAGCCCAGTGAGATGTGTTACACAGTAGTCTTTGTTAT
CAGCCTTTGGTTTCTGATAATTTAGAAAGCTTTCAATCCCCATCACTTATGAAAGTCTGTGAACAATAATTTTTATTTA
AAGATTTCTTACAGTGCCGAATCTTACAACCATTTATAAATTCATGTCATGTTTTCTTAAAGTTACAGAACTCTTTTCA
ATTTTTAAGCCTTAACCTCTTGTCTGCATAGCAAATCCTATTTATTTTTTAAAAAGCTGAATTCAAGTGTCATCTCTTA
AATGAAGATTCCTGATCATGTCAATCAAAGAGAGCTTTCTCCTCTGAAATCTTTTTTTTTTAAATATTAGTTTCAGGGG
CACATGTTTAAGTTTGCTCTAATAGATAAATGGTGTGTTTTGGGGGTTTGGTGTACATATTATTTCGTCACCCAGGTAA
TGAGCATAGTACCCAATATGTAGTCTTCTGATCATCACCTTCCTCCTACCCTCCACCCTCAAATAGGCCCCGCTGTCTG
TCCTTCTCTTCGTTGTGTCCATGTAACTCAATGTTTAGCTCCCAATTATAAATGAGAACATGCAGTATTTGGTTTTCTG
TTCCTGTGTTAGTTCTCTTAGGATAATGGCCTCCAGCCGCATACATGTTGCTGCAAAGGACATGATCTCATTCTTTTTT
ATGGTTGCATAGTATTCCATAATGTATATGTACCACATTTTCTTTATTCAGTCTAATGTTGTTGACCATTTTGGTTGAT
ACCTTGTCTTTGTTATTGTGAATAGAGCTGCAATGAACATATGCATGTGTGTATCATTATGGTAGAATGATTTATATTC
CTTTGGGTACATACCCAATAATAGGACTGCTGGGTCAAATGGTGGTTCTGTTTTAAGTTCTTCGAGAAATTGCCAAACT
GCTTTCCACAGTGGCTGGACTAATTTACATTCCCACTAGCAGTGTATAAATATTCCCTTTTCTTTGCAGTATCACCAAC
AACTGTTACTTTTTGACTTCTTAATAATAGCCATTCTGACTGGTGTGAGATGATATCTCATTGTGGTTTTGATTTGCAT
TTCCCTAATGATTAGTGATGATGAGTATTTTTTCATATGCTTGTTGGCCGTGTAAATGTCTTATTTTGAAAGTGTCTT
TGCCCACTTTTTAATGGGCTTGTTTGTTTTTTTGCTTGTCAATTTGTCTAAGTTCCTTATAGATTCTGGATATTAAACC
TTTGCCAGATGCACAATTTGTAAATATTTTCTCCCATCCTGTAGGTTGTCTATTTACTTTGTTGATAGTTTCCTTTGCT
GTGCAGAAGCTCTTTAGTTTAATTAGGTCCCACTTGTCAATTTTTGTTTTTGTTGCAATTGCTTTTGGCATATTCATCA
TAAAATCTTTGCCAGGGCCTATGTTTAGAATGGTATTTCCTAGGTTTTCTTCAATGGTTTTTATAATTTTACATTTTAC
ATTTAAGTGTCTAATCCATCTTGAGTTGATTTTTGTATATGATCTAAGGAAGCTGTCCAGTTTCAGTCTTTGGCATATG
ATTAGCCAGTTGTCCCAGAACCATTTATCGAATAGGGAGTCCTTTCCCCATTGTTTGTTTTTGTCAACTTTGTTGAAGA
TCAGATGGTTGTAAGTGTGTGGGTTTATATCTGGGCTCCCTATTCTGTTCCAGTGGTCTATGTATCTATTTTTGTACCT
ATACCATGCTGTCTTGGTTACTGTAGCATTGAAGTATAGTTTGAAGTTAAGTGATGTGATTCCTCCAGCTTTATTCTTT
TTTGCTTAGAATTGCTTTGGCCATTTGGGCTCTTTTTGGGTTGCATATGAATTTTAGAATAGTTTTTTCTAGTTCTGTA
AAGAATATCATTGTTCATTTGACAGGAATAGCATTGCATATGTAAATTGATAAATTCCTGAAAACATTCAACCTCTCGA
GACTGAACCAGGAAGAAATTTAAACCCTGATCAGACCAATAGCAAGTTCCAAAATTGAATCAGTAATAAAAAGGCTACC
AGCCAGAAAAAGCCTTGGACCACACAGATTCACAGCAAAATTCTANCAGACATATAAAGTAGAGCTGGTACCATTCCTA
CTGAAACTATTCCAAAAAATTGAGGAGGAGGAACTCTTCCCTAACTCATTCTATGAGGCCAGCATCATCCTGGCAAAGA
CAAAGCAAAGACATAACAACAACGTAAAAACTTCAGACCAATATCCTTGATGAACATAGATGCAAAAATCCTTAACAAA
ATACTAGCAAACTGAATCCAGCAGCACATAAAAAAAACTAATCCCCTCTCCCTCTCCCTCTCCCTCTCCCTCTCCTTCT
CCCCACGGTCTCCGTCTCCCTCTCTTTCCACGGTCTCCCTCTGATGCCGAGCTGAAGCTGGACTGTACTGCTGCCACCT
CGGCTCACTGCAACCTCCCTGCCTGATTCTCCTGCCTCAGCCTGCGAGTGCCTGCGATTGCAGGCCTGCGCCGCCACAC
CTGACAGGTTTTCGTATTTTTTTGGTGGAGACGGGGTTTCGCTGTGTTGGCCGGGCTGGTCTCCAGCTCCTAACNGCGA
GTGATCTGCCCAGCCTCGGCCTCCCGAGGTGCTGGGATTGCAGATGGAGTCTGGTTCACTCAGTGCTCAGTGGTGCCCA
GGCTGGAGTGCAGCGGTGTGATCTCGGCTCGCTACAACCTCCACCTCCCAGCCGCCTGCCTTGGCCTCCCAAAGTGTCG
AGATTGCAGCCTCTGCCCGGCTGCCACCCCGTCTGGGAAGTGAGGAGCGTCTCTGCCTGGCCGCCCATCGTCTGGGACG
TGAGGAGCCCCTCTGCCTGGCTGCCCACTCTGGAAAGTGAGGAGCGTCTCTGCCCGGCCNCCATCCCATCTAGGAAGTG
AGGAGCGCCTCTTCCCGACCTCCATCCCATCTAGGAAGTGAGGAGCGTCTCTGCCCGGCCGCCCATCGTCTGAGATGTG
GGGAGAGCCTCTGCCCCGCCGCCCCGTCTGGGATGTGAGGAGCGCCTCTACCCGGCCGCGAACCCGTCTGGGAGGTGAG
GAGCGTCTCTGCCCGGCCGCCCCATCTGAGAAGTGAGGAGACCCTCTGCCTGGCAACCGCCCCGTCTGAGAAGTGAGGA

Fig. 6.[42]

GCCCCTCCGCCCGGCAGCTGCCCCGTCTGAGAAGTGAGGAGCCCCTCCGCCTGGCAGCCACCCCGTCTGGGAAGTGAGG
AGCGTCTCCGCCCAGCAGCCACCCTGTCTGGGAGGGAGGTGGGGGGTCAGCCCCCCGCCCGGCCAGCCACCCCATCCG
GGAGGGAGGGGCGCCTCTGCCCGGCCGCCCCTACTGGGAAGTGAGGAGCCCCTCTGCCCGGCCACCACCCCATCTGGGA
GGTGTACCCAACAGCTCATTGAGAACGGGCCATGATGACAATGGCGGTTTTGTGGAATAGAAAGGGGGGAAAGGTGGGG
AAAAGATTGAGAAATCGGATGGTTGCTGTGTCTGTGTAGAAAGAGGTAGACATGGGAGACTTTTCATTTTGTTCTGTAC
TAAGAAAAAATTCTTCTGCCTTGGGATCCTGTTGATCTGTGACCTTACCCCCAACCCTGTGCTCTCTGAAACATGTGCTG
TGTCCACTCAGGGTTAAATGGATTAAGGGCGGTGCAAGATGTGCTTTGTTAAACAGATGCTTGAAGGCGGCATGCTCGT
TAAGAGTCATCACCACTCCCTAATCTCAAGTACCCAGGGACGCAAACACTGTGGAAGGCCGCAGGGACCTCTGCCTAGG
AAAACCAGAGACCTTTGTTCACTTGTTTATCTGCTGACCTTCCCTCCATTATTGTCCTATGACCCTGCCAAATCCCCCT
CTGCGAGAAACACCCAAGAATGATCAATAAAAAAAAAAAAACAAACAAACAAAAAACAAAACACAAACAAAAAAGAAAG
GTTTGAGCTAAGAACTTGCAGGAGACAAGGAAATTAGTCAAGCAGAAGGATATCTGGGGGAATGGCATGCGAGGCAGAA
GGGAAAGCTAGGGTCGAGGCCCTCAGGGAAAGAAGCAAGGCCAAGGGGCTGGAGTAGAGGGAGGAAGAGGGGAAGTAGT
GGAAGATGAGACTAGCTTTACTACTGATTATGATGTAAGAATAGTGGCCAGTTTCCTTTCCAACTTGGGCCCGGCAGAA
TGGCTCCTGCAAAGAAGGGTGATGAGAAGAAGAAGGGTCATTCGCCATCAACGAGATGGTGACCCGAGAATATCCCATC
AACATTCATAAGTGCATTCATGGAGTGGGCTTCAAGAAGCGTGCCCCTCAGGCACTCAAAGAGCTCCGGAAACTTGCCC
TGAAGGAGATGGGAACTCCAGATGCACACTTTGATACCAGGCTCAACAAAGCTGTCTGGGCCAAAGGAATAAGCAACGT
CTCATACTGTATCCATGTTCGGTTGTCCAGAAAATGTAATGAAGATAAAGATTTACCAAACAAGCTCTATACTTTGGTT
GCCTACGTACCTGTTACCACTTTAAAAAAATCTACAGTCGGTGTGAATGTGAACTAACTGCTAATCATCAAATATACCA
AATAAAGTTATAAAATTGTTTAAAAAAAAAAACAAAAAAAAAAAAACTAATCCACCACCATTGAGCAGGCTTTATCCCT
AGGATGCAAGACTGATTTCAACATATGCAAATCAATAAATGTGATTCACCACATGAACGGAATAAAAACAAAAAACACA
TGATCATCTCAATAGATGCAGAAAAGGCTTTTGATAAAATTCAGCAACCTTCATGTTAAAAACCTTCAAAAAACTAGGC
ATTGAAGGACATACCTCAAAATAGTAAGCCATCCACAACAAAACCCACAGCCAACATCACACTGAATGGGCAAAAGCTG
GGAGTATTCCTCTTGAGAACTGGAACAAGACAAGGATGCCCACTCTCACTGCTCCTATTTAACATAGTATTGGAAGTCC
TAGCCAGAGCAATAAGGGAAGAGAAAGAAATAAGAGGCATCCAAATAGGAAGAGAGAAAATCAAACTACCTCTGTCAAA
CTACCTAGAAAACCCCATAGTTTTGCCCAAAAGCTCCTAGATAACTTCAGCAAAGTTTCTGGATACAAAAATCAGTAGC
ATTTCTCTACACCGATAATGTCCAAGCTGAGTGCCAAATCAAGAGCATAATCCTATTCACAATAGCCACAAAAAAATAAC
ATATCTAGAAATATAGCTAACCAGTGAAGTGAAAGAGCTCTCCAATGAGAATTACAAAACACTGCTGAAAGAAATCAGA
GATGACATAAACAAATGGAAAAACATTCCATGCTCATGGATAGGAAGAATCTCCTCTGAAATCTTATAGCTAGAGAAAC
CATAACATTTATCATACAAATTTGGCATTTTTTGAGGGTGAATGAATGGGAGAACTATTAGTAGTCACATTGGGACAAT
AATCATAAACTGGAACTATCCTGTGTAAACTGGATGTATTGTCACCCAAGTTATTGCCTTTTGGGATCCTAACTGTTAG
TATCAAGGACTTTGGACCGAAGTCTGTCTGGTTCCAAATTCTGGTTCTCAGCATGACTTTGAGTAGATTATTATATCCT
TTGCCATTCACTTATTCTTTTTATAGCTTCTTACTAAGCTTGTATTAGATGTGTGCAAATTGTAAGGCATTGGTAACAC
AATGGTAAATAATATTTATGGTTTGTGCTGTCATGAAGCTTACATCCAACTTTATCTACAAAGTGGGGCCAAGGATACC
TACATTATGAAAATTCTTTATATCATCGTGAGAAGTAAATACTATTTGTGAAGCATTTAGTAGGATTTTCAGTATATAG
GAAGTCCTCAGTGATAACTATAATTTTATTTGTATTTTTCATATGCCATTTTGTTGCATAGTCGCATGTATAATTGTAA
GGTTTTTGAGAGTAGGAGGCAAGGCTTATGAACATTTACATACCTTCAGGCATCAGTATAGTAGCCTCTCATTGCATGA
ATGAATTTATTGAGTGAATTCCACTAAACACCAGGTATCAAACTTTTTTTTTTTCTCATTATCTCTTCTGTTTTTTGTT
CCTCTGTTGTTTCTTTCCTGCTCTTTTCAGAGCATTTGAATATTTTTTAGTGTGCCATTTTATTTTTTCTATTGGCTTT
TAGTTATACCCCCTTATCTCTCTGTTTATCATTTATCTTCCTTTTTAATTTAATTTTCTTGATTGCTCAAGGGCTAAAA
ATATGCAGCCCCTATGCATTAGAATCTATTCATACTCAGTATTGTACCTCTCCACATTTCACACTTAACATTTGACAAA
TGTAGTAAACTTACAACATTTTATTTCAATTTAGTCATCCTCTTTCTTTTATTTTCTTTTATTTTTTTGAGACAGGGT
CTTGCTCTCACCCAGGCTGGAGTGCAATGGCACAATCATGGCTTACTGTAGCCTCAAACTCTGGGGCTCAAGCAGTCCT
CCTGCCTCGGCCTCCTGAGTAGCTGGGACTCAGTCATGTGCCACCACACCTAGTTAATTTTTTATTTTTTATTTTTAGTA
GACATGAAGTCTCACTATATTGCCCAGGCTGGTCTCAAACTCCTGGGCTCAAATGATCCTCCCTGCTCTGCCTCCCAAA
GTGCTGGGATCACAGGCATGAGCCACAACACCTGGCCTCATCTCCCTTTCTTTGTATGGTTATTGTCATATTCATTATT
TTAACATGTCATAACCCCAACCTTAGAGTGTTTTCACTTTTGCCTTAAATAGTAGTCTTTAAGGAAATTCTAAGAAAGA
AAACATACTACTTTATATTTAGTAATTTACTTAACATTTCCAGTGCTCTTTTTCTTTCTTACTGTAGATCTGAATTTCC
ATCTGGTATCAGTTATCTTCAACTTTTTGTATTTCTTATAGTGTAGGTCTGCTGGTGATTAATTTTCTCAGCTTTTATT
TATCTGAAAGTGCCTTTATTTTCTTCCCATTTTTGAAGAATATTTTTGTTGGTTGTAGAGTTCTGAGTTAACAGCTTTG
TTTTCGTTTTTCCTTTCAGCGATTTAAAAATTCCATGCCATTGGGGTTTTCAGTCCCCCACTGTTTCTCATAAGCCCATG
ATCATTCTTATCCTTGTTCAACTGTACGTAATGTGTGTCTTTCCTCTGGATGCCCTTAATATTTCCTCTTTATCTTGGA
TGTGCTGCAGTTTTATTACAATGTGCCTGGGTGTGGTTTTCTTTATATTTATTCTTCTTGGGGTTTGCTAAACTTCTTG
GATCTGTTTGATCGTTTTGAAAAGTTTTCAGCTGTTATTCCTTCAAATATTTTTTTCTGGCCCATTCTCACTCGCTTTT
CTTTCTAGGATTCCAATTACATTTACGTTAAGACTATTTGGTATTGTCCTACCTATTCCTGAATCTTAGTTCATCTTCC
TGATTATTTTCCCCACTCTTCCTTTCTAAGATTAAATAATTTCTACTGATCTGTTTTAGGTTCTCTTTTCTTCTGCCAT
CTCTAATCAGCTATTCAGACCTGTCCACTAAATTGTTCATTTTTATTTTTTTTTAGTTCTAGAATTTTCATTTGGTTAT
TTTCTCTGCCTAGACTCCTCTATTCACTCCTTGAGATCATATTTCCTGTCATTCTTTGGACATATTTTCATTTGGTTAT
TTAACATATTTACAAAAGCTGCTTTAGATTCTTTGTTTGGACATATCTGGGTAATTTTGAGATTATATATTTAAAATTCT
CTTTTTTGCTTGCCTATGTATCATATTTTCATTTTTTTAAATTATGCTTTAAGTTCTAGGGTACATGCGCACAGCGTGC
AGGTTTGTTACATATGTATACATGTGCCATGTTGGTTTGCTTCACCCATCAACTCATCATTTACATTAGGTATCTCTCC

Fig. 6.53

TAATGCTATCCATCCCCCACCCCCCACACCCCCCCAACAGGCCCTGGTGTGTGATGTTCGCCACCCTGTGTCCAAGTGT
TCTCATTGTTCAATTCCCACCTATGAGTGAGAACATGTGGTATTTGGTTTTCTGTCATTGT TAGTTTGCTGAGAATG
ATGGTTTCCAGCTTCATCCATGTCCCTGAAAAGGACATGAACTCATCCTTTTTCATGGCTACATAGTATTCCATGGTAT
ATATGTGCCACATTTTCTTAATCCAGCCTATCAATGATGGACATTTGGGTTGGTTCCAAGTCTTTGCTATTGTGAATAG
TGCCGCAATAGACATACGTGTGCATGTCTTTATAGTAGAATGATTTATAATCCTTTGGGTATATACCCAGTAATGGGAT
GGCTGGGTCAAATGGTATTTCTAGTTCCAGATCCTTGAGGAAACGCCACACTGTCTTCCACAATGGTTGAACTAATTTA
CACTCCCACCAAGTGTAAAGGCATTCCTATTTCTCCACATCCTCTCCAGCATCTGTTGTTTCCTGACTTTTTAATAATT
GCCATTCTAACTGGTGTGAGATGATATCTCATTGTGGTTTTGATTTGCATTTCTCTGATGACCAGTGATGATGAGCATT
TTTTCATGTGTCTGTTGGCTGCATAAATGTCTTCTTTTGAGAAGTGTCTGTTCATATCCTTCGCCCACTTTTTGATGGG
GTTGTTTGTTTTTTTCTTGTAAACTTGTTTAAGTTCTTTGTAGATTCTGGATACTAGCACTTTATCAGATGGGTAGATT
GCAAAAATTTTCTCCCATTCTGTAGGTTGCCTGTTCACTCTGATGGTAGTTTCTTTTGCCATGCCGAAGCTCTTTAGTT
TGATTAGATACTATTTGTCTATGTTGGCTTTTGTTGCCATTGCTTTTTGGTGTTTTAGTCATGAAGTCCTTGCCCATGC
CTGTGTCCTGAATGGTATTGCCTAGGTTTTCTTCTAGGGTTTTTATGGTTTTATGTCTAACATTTAAGTCTTTAATCCA
TCTTGAATTAATTTTTGTATAAGGTGTAAGGAAGGGATCCAGTTTCAGCTTTCTACATATGGCTAGCCAGTTTTCCCAG
CACCATTTATTAAATAGGGAATCCTTTCCCCATTTCTTGTTTTTGTCAGGTTTGTCAAAGACCAGATGGTTGTAGATGT
GTGGTGTTATTTCTGAGGCCTCTGTTCTATTTCTTGGTCTATATCTCTGTTTTGGTACCAGTACCATGCTGTTTTGGTT
ACTGTAGCCTTGTAGTATAGTTTGAAGTCAGGTAGCGTGATGCTTCCAGCTTTCTTCTGTTGGCTTAGGATTGTCTTGG
CAACGTGGGCTCTTTTTTGGTTCCATATGAACTTTAAAGTAGTTTTTTCCATTTCTGTGAAGAAAGTCATCGGTGGCTT
GATGGGGATGGCATTGAATCTATAAATTACCTTGGGCAGTGTGGCCGTTTTCACAATATTGATTCTTCCCATCCATAAG
CATGGAACGTTCTTCCATTTGTTTGTGTCCTCTTTTATTTCGTTGAGCAATGGTTTGTAGTTCTTCTTGAAGAGGTCCT
TCACATCCCTTGTAAGTTGGATTCCTAGGTATTTTATTCTCTTTGTAGCAATTGTGAATGAGAGTTCACTCATGATTTG
GCTCTCTATTTGTCTGTTATTTGTATATCAGAATGCTTGTGATTTTTGCACATTGATTTTGTATCCTGAGACTTCGCTG
AAGTTGCTTATCAGCTTAAGGAGATTTTGGGCTGAGATGATGGGGTTTTCTAAATATACAATCATGTCATCTGCAAACA
GGGACAGTTTGACTTCCTCTTTTGCTAATTGAATTCCCTTTATTTCTTTCTCTTGCCTGATTGCCCCAGCCAGAACTTC
CAACACTAAGTTGCATAGGAGTGGTGAGAGAGGGCATCCTTGTCTTGTGCTGGTTTTCAAAGGGAATGCTTCTAGTTTT
TGCCCATTCAGTATGATATTGGCTGTGGGTTTGTCAAAAATTGCTCTTACTATTTGGAGATACATTCCATCATTATGTA
GTTTATTGAGAGTTTTTAGCATGAAGGGCTATCGAATTTTGTTGAAGGCCTTTTCTGCATCTATTGAGATAATCATGTG
GTTTTTGTCATTGGTTCTGTTGACGTGATGGATTATGTTTATTGATTTGAGCATGTTGAACCAGCCTTGCATCCCTGGG
ATGAAGCTGACTTGATTGTGGCAGATAAACTTTTTGATGTGCTGCTGGTTTCAGTTTGCCAGTATTTTATTGAGGATTT
TCTCATCGATGTTCATCAGGGATAATGGTCTAAAATTCTCTTTTTTTGTTGTGTCTCTGCCAGGCTTTGGTATCAGAAT
GATGCTCATAAAATGAGTTAGGGAGGATTCCCTCTTTTTCTTTTGATTGGAATAGTTTCAGAAGGAATGTTACCAGCTC
CTCTTTGTACCTCTGGTAGAATTCAGCTGTGAATCCATCGGGTCCTGGACTTTTTTTGGTTGATAGGCTATTAATTATT
GCCTCAATTTCAGAGCCTGTTATTGATCTATTCAGGAATTCAACTTCTTCCTGGTTTATTCTTGGGAGGGTGTATGTGT
CCAGGAATTTATCCATTTCTTCTAGATTTTCTAGTTTATTTGTGTAGAGGTGTTTATAGTATTCTCTGATGGTAGTTTG
TATTTCTGTGGATCAGTGGTGATATCACCTTTATCATTTTTTATTGCATCTATTTGATTCTTCTCTCTTTTTTATTAGT
CTTGCTAGCAGTCTATTTTTTTGATCTTTTCAAAAAACCAACTTCTGGATTCATTGATTTTTTGAAGGGTTTTTTGTGT
GTCTCTATCTCCTTCAGTTCTCCTCTGATCTTAGTTATTTCTTGTCTTCTGCTAGCTTTTGAATTTGTTTGCTCTTGCT
TCTCTAGTTCTTTTAATTGTGATGTTAGGGTGTCGATTTTAGATCTTTCCTGCTTTCTCTTGTGTGCATTTAGTGCTAT
AAATTTCCCTCTACACAGTGCTTTAAATGTGTCCCAGAGATTCTGGTATGTTGTGTCTTTGTTCTCGTTGGTTTCAAAG
AACATCTTTATTTCTGCCTTCATTTCATTATGTACCCAGTAGTCATTCAGGAGTAGGTTGTTCAGTTTCCATTTAGTTG
AGCAGTTTTGAGTGAGTTTCTTAATCCTGAGTTCTAATTTGATTGCATTGTGGTCTGAGAGACAGTTTTTTGTAATTTC
TGTTCTTTTACATTTGCTGAGTAGTGCTTTACTTCCAATTATGTGGTCAATTTTAGAATAAGTGTGATGTGGTGCTGAG
AAGAATGTATATTCTGTAGATTTGGGGTGGAGAGTTCTGTAGATGTCTATTAGGCCCGCTTGTTGCGGAGCTGAGTTCA
AGTCCTGGATTTCCTTGTTAACCTTCTCTCTGGTTGATCGGTCTAATATTGACAATGGGGTGTTAAAGTGTCCCATTAT
TATTATGTGGGAATCTAAGTCTCTTTTTAGGTCTCTAAGGACTTGCTTTATGAATCTGGATGCTCCTGTATTGGGTACA
TATATATTTAGGTTAGTTAGATCTTCTTGTTGAATTATCTCTTTACCATTATGTAATGCCTTTCTTTGTCTCTTCTGAT
CTTTGTTGGCTTAAAGTCTGTTTTGTCAGAGACCAGGATTGCAACCCCTGCTTCTTTTTGCTTTCCATTTGCTTGGTAG
ATCTTCTTACATCCCTTTATTTTGAACCTATATGTTTCTCTGCATGTGAGATGGGTCTCCTGAATACAGCACACTGATG
AGTCTTGACTCTTTATCCAATTTGCCAGTCTGTGTCTTTTAATTGGAGCATTTAGCCCATTTACATTTAAGGTTAATAT
TGTTATGTGTGAATTTGATCCTGTCATTATGATGTTAGCTGGTTATTTTGCCCATTAGTTGATGCAGTTTCTTCATGGT
GTCGATGGTCTTTACAATTTGGCATGTTTTTGCAGTGGCTGGTACCAGTTGTTCCTTTCCATGTTTAGTGCTTCCCTCA
GGAGCTCTTTTAGGGCAGGCCTTGTGGTGACAAAATCTCTCAGCATTTGCTTGTCTGTAAAGGATTTTATTTCTCCTTC
ACTTACAAAGCTTAGTTTGGCTGGATATGAAATTCTGGGTTGAAAATTTTTTTCTTTAAGAATGTCGAATATTGGCCCC
CACTCTTTTCTGTCTTATAAGGTTTCTGCCGAGAGAGCTGCTGTTTGTCTGATGGGCTTCCCTTTGTGGACAACCCGAC
CTTTCTCTCTGGCTGCCCTTAACATTTTTTCCTTCATTTCAACCTTGGTGAATCTGAAAATTATGTGTCTTGGGGTTGC
TCTTCTTGAGGAGTATCTTTGTGATGTTCTCTGTATTTCCTGAATTTGAATGTTGGTCTGCCTTGCTAGTTTGGGGAAG
TTCTTGTGGATAATATCCTCCAGAGTGTTTTCCAACTTGGTTCCATTCTCCCCGTCACTTTCAGGTACATCAATCAGAC
GTAGATTTGGTCTTTTCACATAGTCCCATATTTCTTGGAGGCTTTGTTTGTTTCTTTTTACTCTTTTTTCTCTAAACTT
GTCTTCTTGCTTTATTTCATTCATTTGATCTTCAGTCAGTGATATCCTTTCTTCGACTTGATCTAACAGGCTATTGAAG
CTTGTGCATGCATCACGAAGTTCTCGTGCCATGGTTTTCAGCTCCATCAGGTCATTTAAAGTCTTCTCTACACTGTTTA

Fig. 6.45

TTCTAATTTGCCATTCGTCCAACATTTTTTAAAGATTTTCAGCTTCCTTCAATGGGTTAGAACATGCCCCTTTAGCTTG
GAGAAGTTTGTTATTACCATCCTTCTGAAGCCTACTTCTGTCAACTTGTCAAAGTCATTCTCCGTCCAGCTTTGTTCCA
TAGCTCGTGAGGAGCTGTGATCCTTTGGAAGAGAAGAGGCACTCTGGTTTTTAGAATTTTTAAATTTTCTGCACTGGTT
TCTCTCCATCTTTTTGGTTTTATCAACCTTTGGTCTTTCATGTTGGTGACCTACAGATGGGGTTTTGGTGTGGATGTCC
TTTTTGTTGATGTTGATGCTATTCCTTTCTGTTTGTTAGTTTTCCTCCTAACAGTCAGGTCCCTCAGCTGCAGGTCTGT
TGGATTTTGCTGGAGGTCCACTCCAGATCCTATTTGCCTGGGTATCACCAGTGGAGGCTACAGAACAGCAAATATTGCT
GCCTGATCCTTCCTCCATAAGCTTCGTGCTAGAGGGGCACCTGCCTGTGTGAGATGTCTGTCAGCCCCTACTGGGAGGT
GTCTCCCAGTTAAGCTATGTGGGGGTCAGGGACCCACTTGAGGAGGCAGTCTGTCCGTTCTCAAAGCTCAAACGCCATG
CTGGGAGAACCACTGCTCTCTTCAGAGCTGTCAGACAGGGATGTTTAAGTCTGCAGAAGCTTCTGCTGCCTTTTTTTCA
GCTATGCCCTGCCCACAGAGGTGGAGTCTATAGAGGCAGTAGGCTTTGCTGAGCTGTGGTGGGCTCTGCCCAGTTCCAG
CTTCCTGGCCACTTTGTTTACCTACTTAAGCCTCAGCAATGGTGAACACCCCTCCCCCCACCAGGCTGCTGCCTCGCAG
GTCAATCTCAGATTGCTCTGCTAGCAATGAGCAAGTCTCCATGGGTGTGGGACCTGCTAAGCCAGGCACAGGAGAGAAT
CTCCTGGTCTGCTGGTTGCTAAGACAGTGGGAAAAGCGCAGTATTTGGGCGGGAGTGTCCTGTTTGTCATGGCTTCCCT
TTGCTAGAAAAGGGAAATCCCCCAACCCCTTGTACTTCCCAGGTGAGGCGATGCCCCACCCTGCGCTGGCTCCCGCTCC
ATGGGCTGCACCCACTGTCCAATCAGTCCCAATGAGATGAACCAAGTACCTCAGTTGGAAATGCAGAAATCACCCATCT
TCTGCATCGATGACGCTGGGAGGTGCAGACTGGAGTTGTTCCTATTTGGCCATCTTGGAATGGAGATCTTATTTCTTTA
TCTGGTGATTTTTTATTGCATACTGGACATTTTGGACAATGTGTTATCATGCCTCTGGATTGTGTTATTTTCTTCTGAA
GAATTTTGCTTGTTATCTTAGCATGCTGTTCAATTGGCTGATCACGTTGAACATGTTTAAGCATGGTTTTAGGCTTTGT
TAGTCCAAATCTTTGAGAAATCCCAGGTGCTTTCCCAACCTATTCAACCTGGCAGTATTCAGTGTTGATAGAGGATGTT
TTTCTTGATGATAGGCTTTGTTTTAGACTTTACTGGAGTCATAGGACTTACTTTAGGACATAGTCTTTACTTGTAGAGA
GGTACCAACTTTCTGTTTCTCAGGTAGATCCCAGGGGTGTCAAAGTAGTATTTATTTATGAGCTCTCTCAAACCCATAG
GACCTGAACTGCAATGATGTCTAGTACTATTCTTCTTCCAGCATTACTTGACCTCCACTATTTCTGTTCTCTCAACCTG
ATAACATTTTCTCTCTGTTAAGCCTCCAGTATTCTCACTCTGCAAATGTATGGTGGTGATCTCAGTCACAGATTTGTCC
CATGTCTGGGACAAATCTCTGCAAAACTTCTGAGACTTCTCTGTGTTAAAGTCTTTACTCTCTAAGACTCTGCTTTATA
GATGCCAGCCATGCCAGCTGCCTCAGACTCCAGCTCTTTTTGTCATGTTTAGGAAAATATCCTTATTCACAGAGGTGGA
CATTCGTGGGCAGAGGGATTTCAGTTCTGGATTGGCTTGTTAGCCACTGTTTGAAAACGGTTTCCTCATATATTTTACT
TAGTTTTGTAAGTATTTTCTGTGAGACAGATAATCTGTTACTAGTTACTCTATCATAGCTGGAAGCAGAAATATATAGG
TATCAATTTGATTTGCAATTGTTTCTAGTTTACAATGCATTCTGCCTATCTTAAAAAATTTGTAATTCTAATCATTTTA
TTTTTGATCAGGGAATGTATTTATTGATTCACATGAATAAAATTCAAAGGCTATAGAAGAATATGTAGCAAAAAATCTC
TCTTCTAATCTAGTAGCCTAATTCTTCTCCTCAGAGGTGATAGATATTACCAGTTCTTTTTGTTCCCTTTCAGACATAT
TTTAGATATATATGAAATCCTCTCCCTCTTCTTATTTTCCTCACATAAATGATAGCATGATGTGCATACTTTATATTTT
TTTGTGTTTTGTCTTTTTTCTACTTAATGACATATCTTGGAGGCTATACATATTAATATATAAAGAATTTCTACATTCT
TTTTTGGGCTACATGATACTCAGTTTTATGAAATACCATGAATTATCTCACCAGATTCCTATTTTTACTCATACTTTTT
GGTTATTATAAACAATGCTTCATGAACTACTTTGGGTAAACCATTTGGTATATGCCAGTATATCTGTAGGATACATTCA
TAAAAGTGCAATTGCTACCTGAAAATGTATGCACATTTGTTACTTAGTTAAATGTTGCCAAATTTCCCTCCAGCAGCTG
TGTTAGTGGCTGTAGCCTCGTTAAAAATGTATGGGAGGAATGCTGACATTTTTGTTTTACCTGCAGTATCCATTTTCTC
CATGGTACATCTACAAAATTGGCTTCTATTTTTTATTCTTATGTTTATCTTAATCTTTTAATAATCTTTCCCTGATTAA
CTTACAAGTTTCTTGTTATAACAAATAAGGGGGCTAAGGGGGAGGGGGATGGTTAATGAGGAAAAAATAGAAAGAATGA
ATAAGACCTACTATTTGATAGCACAACAGGGTGACTAGAGTTAGTAACTTATTTCTACAATTAAAAATAACCGAGAGTG
TAACTGGATTGTTTGTAACACAAGTGATAAATGCTTGAGGGAATGGATACTCCATTCTCTATGATGTGATTATTTCACA
TTGCATGTCTCTGTGTAAACATCTCATGTACCCCATAAATATATTATACCTACTATGTACCCAGAACAATTAAAAATAA
AAAAATTTAAAGTACAAAAAAAGACAAAAAGAGTCACACAGAAAATAAAGGAAAATAGTCTATAGAAGGATAAAAAACA
AAACAAAAAAACAAATAAGATAAGCAGCAGCGATTTATATAAATTAGAGTTATTATTATTACTGTGGTTGCTGTGGTTG
ATTTTCCTAATATTCCAGGGCACGAATCAGCTGATAATATCCATTTTAAAAGTGCAATTTTATTTCCATTTTAGTCAGT
CTGATTTTCAAATTATTCTCCCCTTTTTGTGCTTTAAAAATAGGGGTATAACATATGCTAGCCTGTTCCCAATTTGAAC
TCGTGTCTTTCAAATGCACAGTCTAACTTTATTAATTCTGTATGGAATCATGTCCTGTGAGCTTTCTAGCTTTTCTTTC
TTTCTTGTTTTTTTTCCTTTACCTCACTTGCTCTTCTGAATTTGAGGAGCTAAAGATATTTGTGACAAGACTTAGCTAC
TCAATGAACATTCCGAATCAATGTTTTCCTGTGGAAACAGTGACTCTGATGGAATCTTCTCCACTTCCTGGAACATTAA
ATTGTCACTAGGTAATTCAGGAGTCTCTTTTTCAGGTTCTTGTCTGCAGTATACTGAAAAGTGAATTGTGACCTCATTG
TTATGAAATTTGGAAGTGTTTATCTTTAATGTTAGCTTAGAGTGTTTTTTTTTCCCTCTCTCTTGCATTCCCTTTAAAC
CCTGACCATTTAAACATTATAGACAAGGACATTTCTCATGTGTTTGTCTTTCTCTAAATCTGTTAGTACTTTAAACTGT
GTGGTCCCAACACGATGTTGTACTATACTTGTGGAATCAACACTCAAAAGAGCCCATTCAGAAGAGTTTTTTTTCTTCT
TCTTGGTAACTGCTTTCTAAAAAAAATTCTTCTTTATATTCTAAAGCTCTAAGCCCCCAAGCCCCATCCTCCCATGTTG
AGATTCCTGTTGCCACCTGCCTTTGACTCTTCTATGTCCTCCTGTCAAATACCCTTCCTGGCCTATTGTTCCAACTTAT
TATAAAACACTGTAACTGAATGGCTTGAAAAGATGTTGCGAATGTAGTTGATTTTTCCTCTGAGAAACAAGTGTGTTAG
CTTCTTTGGAGAATGTATTAACTGGTACTACTGGCACTACTAAGCTCTAGGCTTAGAACTGTGTGAGGGAAACAAAAAA
CAGAACAAAGATATGCAGAAGTCTGGTTTTTGCCCTCCAGGAGTGCAATGGTTGTGAGTGTAGGATCTGAACTCAAGCA
GACAGATGTAGGCTGGATGATCTTGGGTGAGGTACACTAAATCTCAGTTCTCTCATCCGTGATACAATTGTACTCATCT
CACAGATTAAACAAGATAAATCTGTGGGGAGAATCCGCCCCAGAATTGAGAGAGGCTGTTCTCTGGGCACACTTGCTTT
ATGTGGTCTTTTCAATTGCTGTCAATCAGTTTTTAAAATCTGGTTGCCCAAACACCATTGTGGCTATTACCATGACTAC

Fig. 6.45

TTCATGTTCTGGCTGTTCTGGCAGTACAAATGAGTCTGGACATCTACTTCAGGTAAATTGGATGTTTGATTAATTAATA
ACCATGTAGGCCATTTGTAGATGGAATCGCACAGTGTGATTAGTCATGGTAGCATGAAGACTTTAACAGGCCAATCCCT
ACATCTCAATGGCTTTATATATTACATATTTATTTCTTGTTCGTATCACATTACAATGTGGATTGGGGTAAAGTGGGA
CACAGCATGTTCCACAAAGTTATTCAGATTCCCAAGCTGTTTTTACCTAGTTCATTATCCTCTAAAGCCCCAGAGTCTT
GGATATTAATTTCTCTGAAGGAAGAGTGTATGATAGTGTGTCCAGAATTGGTGGGCTCTTGGTCTCACTGACTTCAAGA
ATGAAGCCGCGGACGCTCATGGTGAGTGTTACAGTTCTTAAAGGCAGTGTGTCCAGAGTTTGTTCCTTCTGATGTTCGG
ATGTGTTCGGAGTTTCCTCCTTCTGGTGGGTTCGTGGTCTTGCTGGCTCAGGAGTGAAGCTGCAGACCTTCGCGGTGAG
TGTTACAGCTCTTAAGTCAGGGTGTCTGGAGTTGTTCGTTCCTCCCAGTGGGTTTGTGGTCTCGCTGGCTTCCGGAGTG
AAGCTGCAGACCTTTGCAGTGAGTGTTACAGCTCATAAAGACAGTGTGGACCCAAAGAGTGAGCAGCAGCAAGATTTAT
TGCAAAGAGTGAAAAAACAAAGCTTCTACAGTGTGGAAGGGGACCCCAGCAGGTTGCCACTGGTGGCTCAGGCAGCCTG
CTTTTATTCTCTTATCTGGCCCCACCCACATCCTGCTGATTGGTCCATTTTACAGAGAGCTGATTGGTCTGTTTTACAG
AGAGCTGATTGGTCTGTTTTGACAGTGTGCTGATTGGTGCATTTACAATCCTTGAGCTAGACACAAAAGTTCTCCATGT
CCACACTAGATTAGCTAGATACAGAGTGTCGATTGGTGTATTTACAAACCCTGAGCTAGACACAGAGTGCTGATTGGTG
CATTTACAAACCTTGGGCTAGATACAGAGTGCTGATTGGTGCATTCACAAACCCTGAGATAGACACAGGGTGCTGATTG
GTGTGTTTACAAACCTTGAGCTACATACAGAGTGCTGATTGGTGCATTTACAATCCCTTAGCTAGACATAAAGATTCTC
CAAGTCCCCACCAGACTCAGGAGCCCAGATGGCTTCACCCAGTGGGTCCCGCACCGGGCGGCAGGTGGAGATTCCTGCC
AGTCCCGCGCCCTACGCCTGCACTCCTCAGCCCTTTGGCAGTGGATGGGACTGGGCGCCCTGGAGCAGGGGGCAGCGCT
TGTCAGGGAGGCTCGGGCTGCACAGGAGCCCATGGTGGGGTGTGGGGAGACTCAGGCGTGGCCGCACTGCAGGTCCCG
AGCCCTGCCCCGTGGGGAGGCAACTAAGGCCTGGTGAGAAATTGAGTGCAGCAGCTGCTGGCCCAGGTGCTAAGCCCCT
CACTGCCCGGGGTGGCGGGGCCGGCCTGCCGCTCCCAGTGCGGGCCCACCAAGCCCACGCCCACCGGAACTCGCACTGG
CCTTCAAGTGCCTGCCGCGCAGCCCCGGTTCCCGCCTGCACCTCTCCCTCCACACCTCCCCGCAAGCTGAGGGCGCCGG
CTCCGGCCTTGGCCAGCCGAGAAAGGGGCTCCCACAGTGCAGGGGAGGGCTGAAGGGCTCCTCAAGCACGGCCAGAGTG
GGCGCCAAGGCCAAGGAGGCGCTGAGAGCCAGCAAGGGCTGTGAGGGCTGTCAGCATGCTGTCACCTCTTAATAGGTGG
TTTGGAGGTTTTAGGAACCAGGTCTGGATGGGGTACATATGACTTACATTCACATTCTATTGGCTAGAACTTGTCTCAT
AGCCTGATCAGATGCAGAGGGTCTAGGAAATAGGTGCTGAAAGAAGGGAACCCATGCACATTAATGAGTACCATTGATT
GCTCCCTTTCAGTGGCACTTTAAAGGTTTGGACTTCCAGTTGTCTCACCCAGGTTGAGTGCAACCACTTAGGCATTCCT
ACCATGTGACAAGGTACTGGCATCTAGCTTGATGTGGGTCTGCCCAATGGCAAATGATTACCCTAAGACTCAAATTTCA
TTTCCCTTCTTCCTGTGTCTTAACCAAGGAGAGATTTTAAAACGTATACCAGAGACGAAGAGGCACTTTGAATTTGTCC
GGGTAGGTGCTTCTTGGTTTGGGGATGTTATGACCTTAGATAGGTAAGTGAAGGCTGTCATGTGGAATGACTCCCAGAT
TTAATGTAATTCCATTACAAGTAGGTTTACATAAGAGGCACAACTTTGTTTCTTGGTTATTCCTTATTACCATATTTAT
AACACTTAAAAGAAAGAGTTCAGAAAATAGCTAGGATTGGTTTACTCCAGATACCTGGAGTGTTAACCAGCAAACTGCT
TTGTAGCCTTGTGTGTACCAACAGAAGTAGGTTGCATATTCTGTCTTTTCTTTCTCCTTGAAAGCAATACTTTGCTGAT
CTTTAACTTATATATGTCCCTTGGAATGATGCCAGGGAGAATTTTTATAATAGGTCCAAATTATAGTTGCCTGTCTTTG
TGTGTGTATGTATATTTAACTTTTTAATTTGATTTTATTTTTAAGTAGCTTTATCTCTGGATGGGCAATGCATATCTTA
ATAGTGTGATCAAAAACAGTTAAGATAAAAAATCTTAATAGAGTTTTATGACCCATAAAAATACTCAATAATATCAATT
TTTGTTTTTATGACTATTATTTGCATTCTCTAGGGAGGCAGATTAACACATAAAAACTACCTAAAGAATATAAAAACAA
TGTATGGATAATATGGCAGAAATGGTATATAATTGGTATAAAGTACAAAACCAAGGACTGCTAGTGCACAGAAGCTTTG
GTTTGTTTATTTGAGGAGATTCGTCTTAGCATCGGCCCTACTGTGTATGACAGACAAGGACTGTTATCACAGCATGTAC
TAAGGAATACATGACCCCTTCTGCTTACCTTCGAAAGGGGAGAAATTGTATCTGTCGAGAAACTTGGTGGAACAAACAG
AAGTGCATGCAATTAATTGTAAGACATAGGGCATCGGTTCTGTTTTCTATTTTAGAACTGTAAAAAGTTTGACAAAGTG
AACCTGAACTCTGATAAAGCAGCAAGAAAAATCTGGAAGTGTTCTTTGGGTTAGGAGATGCTTATAACTGGTTGGATGG
AAATAGTAGTTACATTAAGATTATTTGTTACTTTGGGATCTGATGCAGGGCTGAAACAACCCAATGTAAGTCAATGATA
CTTTCACCAGATTGAAGTTTCTAAGCTGTTTTTCCAAAAAAAAAAAAAAAATAAACGAAAAAAGAAATTCAAAATTAAAA
CAAACCACTCCCAAATTCTCTTACATCCATGGCATTCTGAATTTATAAGGATAGGCTTTGGCCCTTTTAGAATCTGGTT
TTATGAAGGTGGAAGGAATGACAAGGCTTAGTGCAAAATATTAAAAGTACCTTATGCCCTTTTACCAAGTGTGCACCAC
TGCGTTCCTGAGTCTGTGTAGTCTTCCCATCTATTTCTCCTTTCGTTTCTTCCTCCTTCTCCTTCCTCCTTCCTCCTCT
CATCTTCAGAAAATGAAAGGCTCTGGAAGTCTATTGTGTGTGAGTACCTTTGGGACCAATGTAAAACATAGAGCAATAT
GCATGCAAGGGATGCTTCTCCTTCAGATTGGAAAAAAAGTGGATTTAAATGAAAACAGACCTGACAATATACCTTTTTC
TGCCTATAGGTTTGATGAGGTAATGTTATAAAGTATATTGCTCTCTAAAAATCCTGAGGGTTTTTGAGTGAATGATGTA
ATGAAAGTAAGCTACAGTAGTCAGTAGGAATATAATCTAGGAAGTATGTCCTGGGATAAATAAAACTGTTGATAGCATG
AACGTTATGTGCTTGTGAGCTCAGCTAGTGAGGGGATGAAGGAGCTTGCATTTATTAAATAGCTTAGTTAAATGAATTA
TACATATATTCCATGACTTCAACTATATAATGTTGTAGTTAAAGTCATCATTTTAGAATCAGACTGAAGTGGATCTAAA
TCCTGGTATTATGACTTAATATTCACCTAGTCATTAGCAAATGACTCCACCTCTAGCCTAGCCTTAGTTTCCTTATCTA
TAAAAAGTATTTGATTAAAACCTACCTTAAGGATTTGTTGTAAGGGTTATAGGAAATAATGCTATAGGCTTTGGCAAAT
AAAAAACAATCAGCTGGCTGTTATTACCTTACAGTGGTTACATATTTTTAAATAACCAAAATAATTGACATAAAATTAA
CAGAAAAACTTAACAAAATGATTTAGTAAATAACTTAAGATCTTGGAGTGCCTCATAGTCATCATTGGAAACATAAGGA
GTATTGTACTTTTCTAGAACCAATAACATAATTCTGGGTGATGGAATCCTTTTGCTATAAGTATCTATGTGAATACACA
AAACATGCAGGGTTTGAACTAAGCATCGAAGAACGAGGATGATTTGAGAAAAAGTTCTGTCTCCTTGGGAATAATACAA
ATCAGTGATCCAGACATGCAGAAAAAAGACAAAAACAAGGTGGAATGTGGTAGAATACTACACTAAATTATTTGAGACT
GCCCAAATACCTCCAGATGGAGTAAGGCTCTCTAAAAAGATATTGACTGGTTTTTCTATCTCTTCTGGATTGCTCTTTC

Fig. 6.46

AAGTGAATGTGTAAATATGTCTATAAAAACGATGCAGTGTTGGGTAACGGCAACAAAATTATTGGTCTCAGTCTCCCTT
GGCTGTTTTTTCCCCTAATTTCTTTGTGTTTAGTTGATCTACTTGCAAGATGGAATAGTGGAGATAACATTTTCCTAG
TGTTCTTTTGAAGACACGTATAATTGTAGTCCTATTGTCCTGAGACTGAATGTACAGATGAACCCAGCCATGAATGGAG
AAAACCTCAAGAAAAGTGAAAGAAACAAAAACAAGCCAACAGCTCCTTCACTGGGATAAAAACCCTCAGCTAAAAAGAG
ATAGTTACTCTAAGAATTGTACTGTTTTATTAAGTTAGTGACTTAAAATATTAATCTTTTTGAATATAATTTGGCATGG
GGAATCTTTGGGAAGATAAAGATTGTGGTCAATATAACACCTATCTAGCCACCTTTTTTGCGGGTGGTTGGGTCAGTAG
CAGTGGAACAAACTAGTATGTAAATTGAGATTTCTAGGAAAGGTGGAAAATATCTGGGGAACACCATTGGATCATAGCT
TAGTTATTGCAGCAATAAGAAAAATATATTTCTAACTTTAGGGTTAATTTCACTCACGTTTTCCTTCATTTAGATCTGG
TTTTTAATCCCTGATTTAGAGCCGATCTTTTAAATTGTCATTTTACTTTTTTAGAGCTAAATGGTTTGAATTGGACTTA
AATATTCGGAAATAATGTTAAAATGTGAAATTCGTTGCTTTTAGTATAAAATAAATGTATGCATTGAAAAATTCTTTTT
ACATGGTGATTACTTTCATATATTGTGATGCCTTGGTTTTATATAATAATTGCAATGATGATGATGATGATAATGAGAT
TAGCTAACACTTATGTGATACTTCCCTTTGTGACATGTCTGAATTTCTTCTGGTTATGTCATACAGTGGTGGTAATAAT
ACACGTGAAAGGCCAGGATAGTTCTAGCCCTTACATAAGTTTGCTTTATACTTAAGCTAGTCTTTTAGTCCGTTTTTCC
TTTAAACATCATAACCTATTTTGGTTATAGCTACCAGTTGTAACTATTTTCACATAGATTTTTACAGTTAATGGAAAAT
GAACCCTTCTGGAAGTTATCCTTTTTATCAGCAATGAAGATTATACCAGTGCATGCTTTATTACAACCTAGAATGAGTG
TGACTTGAAAAAAATTAGAACTTACCAAGTTGCTTGACTCCCTCTTTGTCCAGTGCAGCAGTTAATATCTCATCTCCCAT
TCTCTAGGGCCAGTCAGCCTATGTTCAAATGTCAGTTCTTCCATGTATTAGCTGCAAAACTGACCTGGGGAAAAGTATG
CAGCTTTTTTAGTTCACTATTCTCATACGTAAAATGGGGTAATGGTACCTACTTCATATGATTATTGAGAAGTTTAAAT
GAATTCCTGTTAGAAGCAGTAAGAACAGTGTCTCTCCCATGGCAAGTGCCTTATGTTTTTAAAATAAATATAAATGTCT
GAGGCTCATTGCCATCATATTATCACAGAGCCTGTATCAAGGACATGGAGGCAATACCTGCAGTGGCCAAGCATGAAAA
TCTTTGACAGTTCTGTTACTTGACAGCTGTAAGAGCTTTGGAAAGTTGCTTAACCTTAGACTAGCTCTCCTCATTGTAA
AATGGAAGTCAGTCATAGTGTCTGCTTTGTGTGGTTGCTGAGGATTAAATGAGATGATATTTGTCAAGACTTGTGGTGA
GTCACAAAGTTCACTGACATCTCATCCAGATGGGCGGAGAAGAGGTAGCTTCTTAGTTTTGATTTTAACTAATGTGATC
TTCCTCCTGAGCAAACCACTGCTGATTAGAAGGAAAAATAAATTAAATGTCTAAGCTGTCTTAGTCTGATGTATTGATT
TTAGATAATGCTCTGTCTCTAGGAAAAGGTGCTCAGACTTTCAGATCTCTGTGTTCCAGGATTTTCCAGGTTTCTCTCC
AAGATGATGTCTGGTATGTAGGGGAGGGGAGGGGCTTAGGCAGCCTCTTGGTGGGAGAGAAAAGTCTGGACCCATAGGC
ATAGTCATGGTGTCCACTGATCGCACTTCAGGAACAGAGACCAATGCCTCTGGATGGACTCTCCACACCCAGCCTTTGC
TAGGGTGCCATCACATTATTTGCCAGGCTTGTGTTCTAGCTCTCAGCTAGTCACTTTCTAATTTCCCCCTTAAACACCT
GGACTCCCAGCCCTACCTCAAAGGTTGCCATAGGGAACAAAGAGCTGCTCAGAAAAGCTAAACATCGAGGCCTCCCTCT
GCCTAACTCCCTCCAAATGTCCTTGGTATGGGGCAGCCTGAGAGGGCATATCTTTCTAGAGCCCTGAACAGGAATGGGG
CAGAAATCCTTCATCCCTCGGGCTCTCCTCTATCCACACAAGAGTCTTTAAGGCACACACATCTGACTGCTTTGTTCCT
TCCCTGCTTTTCCTTCTCACACTCCTGGGATGAGAAAGAGAGATGACAGTTTCCTCTACACTCTTCTAGGCCAAATCTT
CATTTCACCATGGAAGAACTCTTTGAGCCAAATCATTTGGATATGTGAAAAGCAATACAGACATTTAAACATTCTTCCT
CAAGACAATATGTCAGTAAGACTTGGCAAATGGCCTGTTTTGAATGCCAGATGCTGAATATTAACTCCTTCTTCCTTTA
TCTGTCTTAAGAATGTTTTATAAATTTGAAAAGCAAGGAAGAGCACAGTGATGTTTTCCAAAATATTAATCCAAAGTAA
GCGCATAATCAATACAAGCTTTATAATGATGATGATGATGATGATGATAAAGTAACCATTAGCACAGGATAATTGCTAT
ATAGATTGTTTTTACCCTTGGATAGCTTCTGGTTTTAGGGAAGAGACCATAACTTCAGAGCACTTGTGCACTTGGCATC
ATGACACGTAATTGCTCCGCCTCTCACAATTCTCACCCCCTCTGCCCCCTCCCCATCTCTCTGGCCACACAAGACTTTC
TGCTCCTGGAACATGAAATGATTTTTCCTGCTTTGGGGTATGTAATAATTACTACTCTGTCACCTGAAGCCCTGTTTCC
CATATCTTTTCTTAACTGACTTCTCATTTTCAGTCCCTGCCTTAAAAGCTGCCACCTCGATTTTCCTGGATCTTTTCTG
GCCACCCTAACCNAAGTAGCCATCCCCACTTCCAGTTACTCTCCATACCACATCCTCCTTTTTCTTTTCTTTTCTGCAT
AAGTCACTATTTTATGTTTACACATTTTTTTGTCTTTCTACTCCACTAGAATGTAAGCCTCAAGAGGACAGGGGCTGTG
TCCGCTTTATTCCCCACTGGGCTGGCAGAGGACCTGGCACAAAAAAGAGCTCAATACATAGTTATTGAATACATGATAA
GTGACTGAATGCTATCTTATTTCAGATAAAAAGAATCATTATGATTATTAACATTGGTGACATGGATGTGCATGGAGCA
AAAGTACCTTGCATAAGCACAGAAATAAGGATTTTCTATATTATATTTATTATGAACCATAGTAATGGCGAGAATATCT
CTCTCCCTTTATTATTTTGTTCTATAGTGATGGTGGTGGTAGAGTGGGCTAGCACTGCCTCTTAAAAATGATAAGAAGT
CCTTTGAAGGAAGACATCATGCTCGTATTTCTTTCACACTTTTTTTGATATTTAGCTGCTCAATACAAACATGTTGGTG
ATCATTGGTGGAGGGAGTGGGGAGTGGGTGAGGGAAAATTACAGGCCCTCCATTTGCATATGATTAAACTGGCAAGACT
TTCCAGGCAAAGCAGTGCTTCAGAAATTATGTGATTGACAGAAGGAAGGTCACATATGTACTTTCTAGAAGAAGAGTAA
TTGTCAAGTTGTGTGCTGAGGAGCCTCAGAGCCTCAGTTGGCAATGGCTTATGTGGAAATTTTCATTTGAACAGAGAGT
TTTAGGGCCACACCCAAGTGGAAACTACTTATTTCAGGATTGGAGCCTCCACAGAGAAAGATCAGAGGTGGGAATGAAA
CAAGAAATAGTTCCAGAGACTGCTGCTGTGTAACAAATTATCTTAGAACTTAGCAGCTGAGAACAACCATTTTTTTTAT
GCTCACGCAGGAAGCTACAGGTCAAGAAGTCAGTGAAGGCACAGCGGGAATAGGTTGTCTCTGCTCCAGCTGTGCAGAC
TTGAAGGGCAGGGGAGACCGGATGCCAGGATGGGGTCACATAAAGACACCTTCCCTCACATGTCTGGTGATCAGGATGG
CTCCGTGTGGCTTAGTGTCCTTACAGCCTGGTGGTTGCATGTTGTCAGACACTGGGTGTGGAGCTCAGGACTCCAAGCA
TACGAGTTCCAGTAAAGAAGACGGAAGCTACACTGCTTTTCATGTCCAACCTTGGAAATCACACGGCCTCACTTCCACT
GTCTTCTCTTGGTTGCAATAGTCACAAAACCCACCGAGTTCAAGGGAGATGACATAGACCGCCCTTCTAAATGGGAGGA
GGGTCTAAGAATTTTGCAGCCATGTTTTAAACTAATATTAGGTTGGTGCAAAAGTAATTGCGGTTTTNGCCATTAAAAG
TAATATAAGGGGCCAAGCGTGGTGGCTCACGCCTGTAATCTCAGCACTTTGGGAGGCTGAGGTGGATGGATCACCTGAG
GTCAGGAGTTTATGACCAGCCTGGCCAATGTGGTGAAACCCCATCTCTACTAAAAATACAAAAATTAGCTGGGTGTGGT

Fig. 6.47

GCCGTGCGCCTGCAGTCCCAGCTACTCAGAGGCCGAGGCAGGAGAATCGCTTGAACCTGGGAGGCGAAGGTTGCAGTGA
GCCGAGATCGTGCCACTGCACTCCAGCCTGGGTGACAGAGTGAGACTCCGTCTCAAAAAAAAAAAAAAAAAAAAAAAAA
AAGGAAAAAGAAAAAATGTAATACAAATGTAAGGATGAAAGAAGCAAGCAGAGGGGAAGAGAGGGGTCTTGTATTCTGG
AAAGGGAGATAGGCTTGTGACTGCGCGGATCCAGGTTACATTTACTGCACATGTGCCCTGCTTTTTTTGCAGCTAGAGT
GTTTTGATGATCTTCTGAGAGAAACGTCTCCTTCCTCAGCTCCAGTGTGCTCGGGAGCTAAGAGCTGCAGAAAATCATT
TGAAATCTTTGGTGGTCATAATAAAATAGGTAAAGGTACTCTCAGGTACTCAACGACCCTCTTGTCACCAAGCAGCTCC
TCATCAGAACTTCTCCAAACATACACTCTCTCCTTTCCACCTCCAGCTCATCTTGCTTGGCCTCCGCTTTTTCCGTCAC
ATCTCATCTCCTGGCCTTTTTCATTCCTCATCCCTACCTTATTTCCAATTTCAGTCACATTTCGGTGAACACACTGCTC
TTGGTGCTTACAGCAAGGAAGGCTAGTTGTGTTGAATTTATAGTACTTTTTCAACCAGCCATTGGGAAGCACATGGAAC
TCCCCACACTCATTTTTACTGCCATTTTTTTTCAACATAATTTACAAGAAATAGAAGGAATGTGTATTAGCTAATTGT
GCCACGTGGTCCTATTTTCTCAGCAATACTTATTTTTATTAATGCAGCTGATAGAAAATGAGGCAAATTTTCATCAAAA
AGCTTGCTAATGTAAAACTGAGAGTACCAGGCAGCCTGGAATAAAATAAAGAAACACAATTGTAATATTACTATTTTGG
GAGTTTTACATTAAACTCCTACACAATAATCAAAGGTGGAAGTGTGATCATAAATTTTAGCTGGAATTTAGGAATGTGG
CAGCAACTCTGGGGCACATTTACAGGAAAATCATAGACTCAAATGGAATTTGCTGAGGACTATATATCAATTTGCCATC
AGAGTAGACAGTATTAGAAACCCTGGACTCTTCCCATTAATCATTGTAGATGTGGCATCTCAAACAGAAGAGAGTTATG
GCGGTTATAAATCGTGCACTGAGAGTTGTTTTTTACTTTAGATAGAGAAAACAGTTGAAAGAGTTTGGGATAGCAGATG
TATTGTCTCTGGTTCCTCCTTTTAGTTTTAAAAATTAATTGTGCATTTCAGAATCCTGTACTTTAAATATTTAGACATG
GCAAGTTTTAAAAAGAAGATATGTAGGGCACATACTTCTCATCCACTGCTGACAGGCATCAGGAATGGGGTAAATTTGG
ATAGGAGATGCTTATCCATTCTATGTCACTGCAGATATGAAATTTTGTCTTATTGTTGTTTTGATTTAGCANGAAATAT
CTTTATTATTTTTTTTCCAATGATGAGAATGGAAATGTTGTAATTAGTTAAGTCTGAAACTATGATTTAGGAAAGAAAA
AAAAAAGTGCAAGATGATCTATTGCACAGAGAGCCACCCAGAGCCCATCTGTTGGATAGAATAAGGAACCCCTGTGGGT
GTAATTGGGGCAGGAAGAAGGGGCAGGATATGGTGGAAAGTGCTTGGGTTTTGAAGCCCAACTTGTTTTTGAGTCCACG
TTCTATGTTTTTCCTTTGTGTTCTTGAGCAAGATACTTAACTTCAATAATCTATGATCTATACATTGGGAATAATAATC
ACTATCTAGAAATGGTGTTTTAGAGATTAACATATTATAATAACCTTGGTAAAGTATCTGGCTTATACTCAGTAGAAGT
ATCTGCTTTATACCCAGCAAATATTCCTTTTCAAATAGATGTAGGCCACTATGTTATAATTAATAAAGCAATACCATAA
GCATTTGAATGTTTCTGCACAATGACCTATTTGCTGTCTTTTGTTAAATTTTCTTAGTTGGGGGAGTGAAACTCCTGAC
TAGCTTTGGGCTGGATATAGCATAGCGGTGCCCACCTATGTGGAANGGTTTGAAGAGTCCTCGACAGGGCCAGTGACCT
CATTGTCCTTCATAGAGCCAAAAATTGCGCCAGTTACAGATTCAGTCCCCTGAGTTTTGAACAAACTTCCAAAATGCCA
GATCTTCTATTATAATGCAAGTATTCTTGGTAGTTGAGAATGGAGGAGAGTTATGAGAGTGAGGTGAAATAGGTTAAGC
TACAGGTTGCAAACTCATTCCTTGCTCCTCTTGGGAAAACTGGACAGTCAGATGACACATTATTGCCTGGCTGCAATTG
GCTGCAAGGGGCAGCTGCCCAGTTTTGATGGGATGCCCACTCCTGATAGGATACTGATCCCTTTCACCTTACTCTTGGC
ATTCTTTAGACATTTTCACTGTTTTCCTGGCCCTTGCAACACCTGAAAACTTATTTGCCCACAGTTAATTAGAGAAGAG
AACTGACAGATGTCAGCCAAATTTAGTTGAAAGCGGGTAGTCTGTATGTCAGAAGGCTCTATTGTTCTTTCATTATATG
AGGTAGGGCAGGTGGCTGCATCTTTGAACTCTAGTTTCCTCCTCTGTGAGAAGATGGCTTAGAGGTTCCACAATCTCTC
TACTTTTTCTCATTCTCTGGTTCCTGATGGTGATCTGGGTTCTACCTGAAGGGAGCCCAGGATTAGAGAAAGGAAGAAT
ATTACAGGCAAACTGGTCTCTTTCCAACATGGCCCAATCCCTCTTGGCGGAATCTGCTTCAGGGAAGTTAAGCGTTTGT
CTAGAAATTATGATGTCATGTTACGGAGCCCTTATTCCCTCCTCTATAAAACAACTTTCCTGTTGTCAATTCTTCTGTA
ACTATGTTATCTACTATGCTGACCACAGGGTACATGTGGCTTTCCACATTAATGAAAATAAAAGAAAATAAAATATCCT
GTTCCTGGGCCACACAATCTCATTTCCAGGGCTCAATAGCCACATGTGGCTAGTAGCTACTTGGCAGAGGAGACACAGA
AAGAACATTTTCATCATCACAGAAATTCTACTCTTGTAGAGAGTGCTGCTCTAGAAGCTTTAGGCCACTGAAGTTGTAT
TCAGCGACCTGACATCAGAGAGTTTTTGTAGTCACTTGAGCAGAGGTAATGCAATCCCTGGGGAAGACTTCCAGTTTCA
ATTACATTCAGGTTAACAAAGCCCATTGTTCCAACCAAAATAATAGTTGCTCAACATTCCATTCTGATGATTTTTTTA
TCCAAGCAGTCAACATAGTTTCATTAAATACCACCCACTAATTGTGTACTAGTTAAATGAGGAATGAATGTGGCTCTGT
CTCCAGATAAATGAATAGAGAGAGAGACAAAAAAAAAAAAAAAAAAAGAATTGGCTGACTCGGGGTGCTGGGTACACAA
AATAACTTGGTTAGGCTGTAGGATCAGAAAATCTCTCTAGATCTTTTTTCTAGAACTTCCTTTTTCCTAGATCTTCCTT
TCTGAGGAGAATCGCTCAGTTTTAACAAAGTGGCCAGTTTACACTAAAATGCTTGTCATTTATATAAAATATTGGCATT
TGTTGCAATATTGCAAACCAAAGAGTCATTGAGTTCCAAACTAAACAAAAGTTTTATGAAACAGTTTGTCCTGTCCAAC
CTTAAAAAGAGAAGGCATTTACTATATGCCAAGCATTGTGCTGCCTGCTTCACGTGCATTTTCTAATGTGGGTTTCACA
ATACTTTCTTGACAAAGGTCAGCTGTGCACCTACCTGCTGGAGAGACAGCATCAGGAAGGAGGGAAAGCAGAGGTTGTG
GAGTACAGCAGACTGGGCTTAAATTTCAGCTGTGTTACTTACTAAACTTCAAGACTTTGGGCATTTACTTAACTTCTAT
TAGCTCTAGTTTCCCTGTCTGTAAAATGGGGGACATGATACCTGCTTCATGTGATTGTTGTGATGATTAAGTCAGACAA
GGCAAAGGAAGTGCTTGGTGCAAGACCTGGCACACAGAACATGAATACAGGGGAAGAGGTCATCTTTTCTGTCCCTACT
GAATTGTACCTTGTATATATTGGACACTCAGCAAGTATTTGTTGAATAGATAGGTGGATGGAAGGGTGGAAGTCACATC
TACAAAACATTCTTCATCTGCAGAACATTTCCTGNGAGTGTAGGTGGTTGCCTAAGTACAATGATTTGGGGAGGCCAAA
AGTCTCTTATTCAACCTCAAACATCATCCCACTGGCTCTGGCTGCTATTTTGAAATTTAAGTATTCTTCATTCTATTCA
GTTATATGTCCCTGTTAAAAGCAAATATTACTTTAGAGAAGGAACACACTAAGCTATTGTGTGCCATGGTTTTGGTCCA
CCTGCCGAGCCTCCTAAGACAGCACTGTGGAGTGGAAACACCTCTGATCTGGGAGCTGGATATTCTGGCCTCCAGACCT
GGCTGTGCTAGCATCTGGCCTTTCCTGGGCCTTGACCTCAGATTTCCTANTAATTAAATGGAGGATTAGACTAGATCTT
CTGTAAATGGTTTGGTTTCTGGTTTTATAAGTGGGTTACCAGGCAAGTGAGTTTTCATGTTGAGGCATGGGGCAATGCC
TGGGTTGGATGGCTTTGGAAGGTGGCAATGTGGGATTATAGCCCTGCAAGGACAGGGAGCTTCTGTCCAATGTGGTTA

Fig. 6.48

CAGGGTGCCTGATAATAANAGCATAAGGGACATACCATGAAGGAACAGGGGATCAACAATGACAGTTTTAGGACTGTTT
CACAGCTTTGTTAGATACCAACCTGGTTTATAAACATCCCTTAGGAGTCTTCCTGGATATTAAGCATCAACATAAGATC
ACCTGGAATGAAGCCAGTTGACTGCTCCAAACGTGATCTTCAAAACTGGGTGCCCTTATGCAGCAAGGCTTGTGTGTAT
TGTGGAAAACTGCTCCAGGACATTCTGAAGCGTGACTGTCCACTCGGTGGTGCAACCACGGACTGCCAGAAGCTACTGG
CCTGGAGCAACTGGCCTAGCCCATAGAAAGCAGGAATGAAGCAGCTCTTCGTGGCTGTAGGTGTCCCACGGAACAAGGG
TAGAGCCAATTACTGAACACCTCCCACATGCCAGGCACCATAGTGGGCATTTCACACACATTGTCTCATGTAAACTCAC
AGCTGTTCCATGTAGTAGACATTACTGCCTTCACAACACAAATGGGGAACTGCAACTCAGAGAGGAAAGAAGTAGAGGT
GAGATTTGAGAAGATTTTTGGATGCCAAAATTCGCATGTCTTCCCATGTATGTCGCACAACCTCCAGGATGTTCTGCAG
ATATCACTTGCTGTTATAGTTCAATGTTCTCTACCCATGGGCATTTAGGGTGGAATTATTGTTCTCACATTATTGCTAT
TTCAGGCATTGCTGGAACAAAGAAACAATCACCACCAGTGGCCCCATCTACTCTGAGAGAGAGCGTTTGAAGTCATCAG
TCGTATTTTCCAGCTGTCAGGGTTCCAATTTAAGTTTTATGTTGGATCTTTTTCTCTTTACTCTTGGTTGATTGGAGTT
ATAATCTGTGTTTTCNTTCCCATTTTTGGGTATTCACATTTAGATTTTATTGAGATTCATTTCATAGTGCTTTAAAAGG
TTAACAAGAAGCCTGAAACTCTCTGGGTTTCTTATTAAGATGCAGCAGGGAAGAAGACAGAGTGTTTCAGTTTATTGGG
CTAGACATATCTGTTGATTGACGCAGATGCTGCAAACATGTTCTGGGAACCATTTCAATGTTCTGTAATAAGTAGCACA
TTAATCAGGACTGGGCAAACTGGAGGGGTCTCAGCAGGGTTGGAGTTTCCTGGGAAGTGCCTATTAAGATGAAGAATTA
GCCAGTGCTCACGTTTAACANGTAGACTCCTGAGATGCGGCCTGGAGGGAGATGCCACAGAGTGCTGATCAACATTGGT
GCGGATCACTGACGTGTGATCACTTTCACCTGTACATCATTATCAGTTCAAAGCCTCCCCCTGCCCCGTGGGCTTGCCG
TGAGAGGGAGGCTCCATCCTCTTTTTTAACATAAGGGCAGGAGGGTNTGCACACTCCAGAGATGTGTGTCATTTACTCT
TTGCAGCTTCAGCAATTGAGTAGACTGAAGAAAGATGTTCGTGAAAGGTGGACTTTTCTTTTTATCATCATTTGCCCTT
TTTCTAGATTTTTCATTGTGAAGTGTGTTATATATTCAAGACTTTATATCATGTCATCAAAAGCCTAACCATAAAATAA
GTCTTGAGTATGCCCACTGTACTGTATGGAGCATGAAGCCGGCTTTTTGTGCAGTCTCCTTGTTGGAACCACTCCTTGA
AATTTGGGCTTATCATGTCCTGACTTTTCTGGACAGTTTTACCACATAAGATAGTTTGCTAAACATCTTCCCCGTATTT
AAAATGTGGCTTTTGTGTAATAAAGCCCTGTGGACTCCATAGCAGTACCAAGTTTACAAAACTACCCCAGTACCACGGT
TTTGTAAACAGTACCCCTGTTTGCAAAAACTGGCTCTGTTTTAAAATAGCTTAGATGGCCTTTATCCCAAGTGCTTGTG
TTTTGATTATTCTCTGATGCAGAATTAAATGAAGAAATTTGTGCACGAAGCAAACTTCACCTCTGTATCCCCCAATACC
ACATGATCTCGGCTCACTGCAACCTGTGCCTCCCAGGTTCAAACAATTCTCCTGTCTCAGCCTCCCAAGTAGCTAGGAT
TACAGGTGCCTGCCACCACGCCCGGCTAATTTTTGTATTTTTGTTAGAGATGGAGTTTCACCATGTTGGTCAGCCTGGT
CTTGAACTCCTGACCTCAAGTGATCCACCCAACTCGGCCTCCCAAAGTGCTAGGATAACAGGCGTGAGCCATCGCACCC
AGCCCCTCAGTTTTAATTCTATAAATTAATGGATTTTATAGTAGGATGTTAGGACAAGAAATTTATATGTCATTACATA
TACTTGGGGATTGATAAGAATTTATATTTCTTTTTTTTTTTTTTTTTTTTTTTGAGATGGAGTCTTGCTCTGTTACCCA
GGCTGGAGTGCAGTGGTGAGATCTTGGCTCACTGCAAGCTCTGCCTTCCGGGTTCACGCCATTCTCCTGCCTCAGCCTC
CCGAGTAGCTGGGACTACAGGCGCCTGCCACCACGCCTGGCTAATTTTTTGTATTTTTAGTAGAGACAGGGTTTCACCA
TGTTAGCCAGGATGGTCTCGATCTCCTGACCTCATGATCCGTCCGCCTCAGCCTCCCAAAGTGCTGGGATTACAGGCGA
GAATTTATATTTCAATATAGCAGAAAACTAATGAAAACTTTCGAACCCCAGTCCCATCCACTTCTGTTTTACCATTCCA
CATTCTTGTGTAGTGAGTATGGTTCTGAGGCAGTGGTCACTTTGTGANGCAGTCATGAAATAAATAGGAGAGAATCTGG
CCATACTTGTGTTTTTCCAGATCCAAAGGTAGGATAAGCCTCAGATGCTGATGTGAATTTAGTGAGGGGTCCTGATATG
GCNTGATGCCCTTGCTGTTACTCTGGTTGAGCACAAATGTGTCCTTTTATATCATATATCCACTTGAGATCTTCAAGGC
AAGCAATTGAAACAGACTTTGGCTGGCTTAGGCATAAAAGTAACTTCTTGAGAGATACCAGGTTATCTGGTGGACTCAC
TGTAAAGTTGTAGGAACCAGACTTAGAATATGGGTGGGGAAAAAGGGAAGCCAGAGCCAAATTAAAAGTCACACCAGAG
AGCCAGCTTGGGGAGCCATCACTGCTGCTCCTGCTGAACACTGGGCATGGGGCCGGCACGGCCACTGCTGGTGTTGGCC
TTGGATACGGTTGCTTGGTGCTGCTGGACCTACTGGCCTGGCAACTGGCTGCTGCCACCACAGTTGCCAGGATGAAGTT
TCTCTGTTCTCTGAGCCACTGGCCCCGGATTTGAAGCCCCAGGATGGATGTATATCATTGTCTATGACCATGATCTGTG
CCATGACTGCCAGAGAGTCTGAAAAAGAAAGAATCTGGCTATCTTGACTGCTGTAATGGAAGGGGCTTTGTTTCCCACT
AAGATTCACATGGCAGGAAATTCATCAAATATAGGAAGGGTTTCAGATACCAGAAGGCCACAGTCTGACAATACATAAT
CAACTCATTTTATCTAAAGGCATTCTTTTGAACCTTTAATTTCCTTCTTGCTGACATCTTTATTCTTTTAAGCCCCTT
ATTAATAGTCTGTATTTCAAGTAGGAGAAGAAAATATAAAGAGATATCCTTCAGTTCCTTTTCTTTATAGCTTTCTTGA
AGTTTCTATAAGCAATACTAAGAGGTAATATAGCCTCTGTCACACCCCCACCCCAAGAAATTGGATTGGAGAAGTGAAC
ACACCTTCTGAGAGTGCAACTATAAAATAGGCCTAGAATGGATCAGATGAAAGGAAATAAAAAGCAATTATTTAAGTGG
GGCTTAGATGTTGCTTAAACTTGGCTTTTCCTCCTCTATAAATAATCAAATTATAGATCTCCAGGGACCTAAAATGTTA
ATTTTGGGATGTATGCCTCATTGCAATTCAAAGATAGGTGGGTGCTTAACATGAGGAAGTAGAGTTTAGTGATTACAAA
CAGGGTGTTGGGGTTGGACAGACCTGGGTGCAAGTCCTTGTTCAGCTGTGTGACTTGGGGCACATTTCTTCACCCTCTG
AGTCTGTTTCTCATTTGAAAAAGGGCAGTGGTAATCTTTATCTCACAGAGTTGGTATGGGAATTGAATAAATTCATATA
TGTAAATCCCATATTAAGTATTTAGTAAATAGCTATTCTCATTCTAATTCCTGTTATAGGAGAATAGAGGAGAAGTTGG
TTCTCTTAAAGTAAAAAATGGGTTGCTTTTGGAGGAAATGTCAAGCAGAGGTCAGTTGACAATGCAATGGGTGTTGTAGA
GGAAGATCTAGCACTGGGGAGTAAGTGTGGTGGACTGAGGGATGTCCCAGGTTCCCTTCGATAGCTAACTCTATGGTAC
AGTAACTCTCTTGAGAACTCAGACAAGGATTAGTCCTCTCAGCTGGGCTACTCCTGATGTTGATGGTGAAACACCAGCC
ACTCAGGCAGTGTCCATCAATGTCAACCCTAATCTGGAAATGAACTGACCAGGCCAAGGTAGAAGCCTGTTGGTCTGTC
CAACTAGTAACAGATCCGTAAAAGTGACAGCCACTTTTACCACCATCATTATAGCTCTGACCACTTTCCCTGACTTGAT
TTGGCCAATGTGTTGTGTGAGTGGTGGATGGAAGAAGCTAATACAGCTATGGCCTTCTTCAATAATGGTGAGGTACCAC
TATCATTTGCAAATCAGTTCAAAAATAGGAGGTCTTCCCAGCTGGGCACTAAGAGCTAATTCTCTTGGGCAATTTTTTT

Fig. 6.49

TATTGCATTCAACCATAGANGATTAAAAAACAAAAAAGAATGGCATTTTCTCCTCCCAAAGCAAAACCTCTTGGATTCA
TGGTCTATCCTAATTATATCTTCTGGGGTAATCCTGAGAAATCTTGTCCATTCCAGTAGAGCCTGTGCTGTGAATCANC
TGTAAGAGTGCTCACCTAGTTTTGCTACAGTGCAAGAATTTCAAGGTCTAAACTCTATGAACAAATTGATTAGGGTAAG
TTATTGCCTATAATGTGATTAAATTATACTATAAGGAATTATTTTATCTGATGGTTTTCCAACATGAGAGCTCAGGCAG
AATAGCACAAAGGATGAGATTATAGATCTACTCATGATTTTCAAGTACATAATACACTGTTCTTAACTATAGTCAACAC
CTTGTGTAATAGATCCCTTGAACTTATTTCTCCTAGCTAACTGAAGTTTCCTATCCTTTGACCAATATCTCTCCCACTT
ACAACTCTCTGTCCCTAGCCCCCAGTAAACACCATTCTACTCTCTGCTTTTGTAGGTTTGACTTTTAAAATTTTCACAT
ATGAGTGAAACCATGTGGTATAGTGTTTGTTTTTCTGTGCTTGGCTTATTTCACTTAATATGATGTCCTCCAGATTCAG
TAATGTTGTTGCACATGACATGATTTCCTTCTTTTAAGGCTGAACAGGATTCCATTGTGTATATATACCATATTTTATT
TACCATTCATCCATTGATGGAAACTTAGGTTGATTCCATATCTTGGCTATTGTGAATAATGCTGCAATGAACATGGGAG
TGTAGCTATCTCTTCAAAATGATTTCATTTCCTTTAGAAATCTACCTAGTCATGGGATTCCTGGATCATATGGTAGTTC
TATTTTTAATTTTTTGAGAAACCTCCATATTGCTTCCCATAATGGCTGCACTAATTTACATTCCCATGAACAGTGTGCA
GATGTTCCCTTTTTTCCATATTCTTGCTAACACTTGCTAACTTTTGTCTTTTGATGATAGCTGTTTTAACAGATATGAG
GTGATAGCTCATTGCAGTTTTAATTTGTAAGGGAAATGCACATTTAAAAATACTGTGAGTGCTAGTAGTAAATGTGGGA
TCCTAAAAATTTGCATTGGACCACGTGAAGAATTTCTTTTGTGAGGCCGGAAAATGGGCTAAGAGTCAGAATGACCTAG
TGTTCGTCTTTGTTTCCATACAATTCCCAACCTACCTTGAGGTCCACGTCTGAATTTGGCTGTTGAAGGCTTTAATTTT
CAAGGAAAGGAAAGGTCTGCCTGGGATAAGTCGGCCAGCAAGTCAGCAGAAGCAAGCCTAAGACTAAGGAAACACAGAT
CTACCTGTTGTCTAAGGCCAAGCTGGCATAGATACCTAACTCTGGGTCTTCTCTGTCTGGGGGCAAAATCTCCAGCCTT
GAATAGGAGTCAGACCTGTTATGGTGGCTTTCACCTGAAGTCCCATCTACTCACGAGGCTGAGGCAGGCTCCCTTGAGG
CAGGATCCCTTGAGCCCAGGAGTTTGAGGCTGCAGTGAACTATGATCACACTACTGCACTCTAGCCTCGACAACAGAGC
AAGACCCTGTCTCTAAAAAGAGAAAAGAATAAAAAAAAGGAGTTAAAAGTTAATATAGAACCAGAGAGAGAGGGAACAG
GTCTTCTCAGATGGGGTAATCCCTGGTTTGACTTTCCTTCTAGCCCCATGAGAAGAAGACCCGTAAGAAAATAAGGGAA
GAAGCCAAAGAAATATGTGGCAGGGTCTTTCCCAGGTGGCAGCAGCCCAACCCAGTTCACCTTCCTGACTTCATAAAGG
AAGACACAGGAGGCTTTTCTTATTTTTACTCCTCTCATTAGACTCCACCATCTGCAAAATGTTGTCTAATAATAAACTC
TCAGGATCATCTATTTTAACATATCTGCTCCTTTGTGGGAAGAGTGAGTGTGAAAATTTGGGAACATGCGCAGTGGATA
AAGCTGTTATTTTATGCAAAACAGAAAAGAGCAGTGCCCCCTTTGGGTGGATGTAGCCCTGTACCAGTGCACACAGCTT
GGTATTCTCAAAGAAGCCCACAAAACAACCAAGGAGGCTGTTCCAGCTGGGCACTAGTAGCTGATTCTCTTGGTAACCG
TGGGCTGGGTTTAGCTNTCACATGCCTGCTTGAGCGGAGTACCTTTGTGTGGTAAACAACCTGGACCACTCTACATGG
TCCCCTGGTGGTGGTAATGGGCAGGCTTAAGCGGTGTGATATTGGTTAGGGGGCTCAAACAACTCATGGAATGGGCACC
TAAGCAAGGTAGAGAGATGCAGAGCGGGGAGGGAGGAGTTCTGAAGGGGAGTTTGGCTTGTTTGCTTTTTTTTTTTTTC
TTCTATCTTGGCACCCTTTATTAACAGAACACAGTGTAGATTATGCATTGTATTTGAAAAAGAAAGAGAAATAAAAGG
CGTAATCTTTGCTTTTGAGATGTTTTCAGTCTAACTCAGCAATTCCTTTCCCTCATCCTTTCTGCCTCACTACTTATTA
CATTTACTTCTAGTTCTTCCTCTTTAAATTGAAAAAGCAGAGGCAAAACCAGACACTGTGATAATGGAATTTTATGTTG
TGGTCTTTGATTACACTTCCCTTCCAAAGCTTCAATATTTCACATTGTTAATAATAATGTTCTTTGTAGGAAAAAATCC
TTAATTTGAAAATGTTGCAGATGGCCTTTTATCAGGAGCTATGGACTGTCAAAATAAATAGATATAATTATGAACCATT
GTTGTTGAATGGGCCATCTTAAATAATAGCAGTCAAGTTTCCAGAAATTAAAAAAAAAAACCTTACATTTTAAAAAGAC
CTCAGAATAATTAGTGGTCTCTGGTTGATTGGTTTTCAACAAGTTATTCAGCAGATGGAGGCTGTCAGATTTCTGCTGG
TACGATTATTTTTGTAACTCAGTGGTGGAGGGGGGTGGTTTATGCAACTCAGCATCACCTCTTTGTTGAATTGGATTTG
GTTTAAGAGAATCCCACCGCACCTGTACATTAAGATGGAGCATGAGGAAGGTCTTGGGACCGAGCCATTTGAAGAAAAT
CTAGGCTCNGGTGGGTCACTTTAGGAGTATTAGTATAGCCTTAGACATTAGCTCTTGGAACTACCCTGAAGGCGAAAAT
GTGAGACAGCTAATATTTCTCTGCAAGAATTCCTTGGGTTGCTGAGTTTTGGTTCTTGCCATCAAGAAAATGTTTGTAC
CGGAGCAAGATGTGGAAAACCCCAGATGAGAGGATATTAATGTAGATTCATGAGCTCTGCCAAAGTAATGTCATTACTG
CTGCTCCATCCCTGAAGAAAGATCTTAAACATATGTAAATAGACAAGACAAGTTATAAATTGTAATTTAGTATCTGGTA
ACTGAAAGTCTTTACTTCATTTGTACTGAGTGATTACCTGAATTTACTAAGGAAAATTTTGGAGGTCACAGATTTGAGT
TGAAGTCAATAAAATAGGATAAAAGTCTAGATGATGAAACTTAGCTTTTGTTGATTAGAGTTCTGTTTAGCTCTTAAAA
CTGCAGTAAATAAAATGTTATATTAGTGGAAAATACAAATGGATTCAGAAAATATAGACAAATCGATAGGCAATTGAAA
TGTATACATTTTATTTTCAACATATCAAACCTCGAGTTCAAAGTTCTTCATAAAAACACAATTCCTAAATTAACTTTAC
AATAACTGTGAGCATTCTTATCCCCATTTCAGTGCTACAAACCCAAGTTATGGGGAGAAAACTTTAAAAGGAGGCAAGA
GCTGCCACTATAATTTAAAATATATTGTTCTCCACTCTTTTTACATATTCTTGAAAGCAGTTCATTAACGGTGACCTTG
TGTAGGAAAAAATTAGCATTTGTGCCAAAAAATTCTTTGTATGTGTTAGTTTGTGTGCATATTTTGGAGTCTTCATGTTA
AAAGTATAGGACAGACCTACTTGACAAAGGTGAATTTTGTCGAAATTTTGGGGAGAATATAGATTTGAATTCATGTAAA
TAAGATTGAATAAAAATCCAGATGACTGAAACATATTTCATCTTTTGCTAATTAGAGCTTTATTGAGCACTTAAGCTGC
AAAAAATAAGAGGTTATATTAGTAGAAAATACACATGGATTTAGAAAATTTAGGTAAATCTGTAGATAATTGGAATATA
ACTCAGGAAAACATTCAATGAAACCTCTTTTTCAACACATAGATTAGTACCCTAAGAGAGTTAAATTAGTGTTTTACTG
TGAAACTATTTTCTTCCACACCAGAATCTATTGTATGTTGGCAAAGAAAAATGGACTAGCCATTCATTATCACCAAGAG
TTTATTACTTACTCTGGCCACCTCAGTGTTCAGTGGGTACCTAAAGTGAAAAGAGTTTTAAGTGCTACCTTTGCAGTAT
TAAGTTTGAGTGAATCCAGGGATATTTGCTGTGAGTGTGGCAAAATGATTATTGTGGAATTGGTTGTTGAATTTGAATT
TTTTGTTGCTGGCAAAATTCACATTGCCAAGTCCTCCTTTTAAATTGAAGAGTATTTTAAGTGAAATGCAATACAAACA
TATCTTATTCCTTGAACTTCTTGATTAAATTGGTAGTGTTTTTTATTTGTAGTAGGCTACTTATAGAGTTCTTTTTCAT
AAAACTTGAAGGTTCTTCTTCATAAATCTTGCAGCTTCAAGGGGAAAAAAAGGAAAAAAGAAACTTATTTCCTCTTAGA

Fig. 6.50

CCCTTACTGTCACACCTCAAGTATTGGACACAATGTGCGATGCTTAAAGACTCTCTTGGCTTAGAAAAGCCTTTCTCCT
CTCTTGGCAAATCAGGCAATGTGAAATCAGTAAGGGCCCAGTTCTCACTGTTTTCCTATGAAG[illegible]GTTCCGATGTGTGA
CACATCCACCTTATGGAGGTTTAAGTTGGTTGTGTCTTGAGGCTCACAAAAGCAGGTTGTGGAATTGGTATAAGCATTT
GATTTATTTGAACATATCTGGTGGTGTGTCATTGACTGACCCCTCTGTTATAAGCTTTCCTTCAAAAAAAGTCCATCAG
AGACTTGAAGTTTCACAATCAAAGCTTTGTTTACTGGGCATATTTTTCAGCCTCAAGGAAATCTTCCCTGGCTCCCTGT
AGAAGCAATAGTTACACCTTCCTTAGGGGAAGAACCCGTTTAAATGTGTTGCACATCTTCACCTCTTTTACTTGAATAA
GAAGTTTACAATCTTCCCTGTGGTATCCTTCTTAGGGGAACTCTAGGAAGAAATGTTTGATCATGAGAGTGGTAACTGG
AAGCATGAACTGGAGTACGGTGTTCCCCATTTAAAGAAATTTTGCTTAAATTTTTTTTAAATGGCTTTCCAGAGGTCA
GGCAAAGGCCAGTTTCCCCTTGATATTGGGAATTTCAGGGTGGGATTAACAAAAGGCTAGAAAATGAAGATGGAAAGGG
ATTTATAGCTACATAGCAGCAGCATGGACAATTTCCTAATGTGCATCTCTAATTAAATATTGGTGTATTAGCTTATTAA
TTACTTCAACAAATATTCATTGAGTATCTCTGCCAGGCAAGAATCTGGGCACCAGAGTTACAAAAGTGAATGAGGCACA
TTTTTCTTCCTGAGGGAGCCTAGAAGGAAATATACAATTAACTACAGTCATTGTTTCTCACACTACCAAATGAAAGAGG
TGAGGCTTACCTGTTTCTCAATGTCGTTTTTCTGAGGACAAATAAATGAAGAAACTTCAACTAGAAAAAACAAAAATCA
TATTCACAGTTGGATTGTCTGTACAATATTGTCATCAGTAAATCATGTAATGGTATTATAGGACTTGGACTGAGTGTGA
CATTGCCAATTTCAGTTTGTAATTTGTTCAAACTTGCAAGTGATAATGTGGTACTTTATTTTGAGGAGCAAAACAATAA
AAACCATCAGTACAAACTCAGGGTATCTTTGGTCCTAGAGATCTCTATTCACAATGATTCCTTACACTGTGTGAAGTAT
GAAAGTTCTATAAAAAGATTTCTCCACAATTCATTTTATAATAGTCCTGTCAGTAGGTTTTATTAACTCTACTTTTCTG
TTGAAAATATGGAGTCTCAGTAATTGTGATTGAGTTAGTCATCCCAGGTTATAAAACCAACAGTTTCAGAAGGGTCTTG
AATGAAATATCTTCTGCCTTTCAATCCAGGGAAGTTTGTACTATACCTCAACAAGGACTAAAGGTAAGGGCTAAACATG
GAACATCACAGCTATCAAATTGATGAGAGAGGCCTTATCACTTCTTAGGTTGCTCAAGAGGATGATGTGAGCAGAATAA
TGGCCCCCAAAGAGGTTTATGTTCTCATCTCTGGAATCTTTGAATACGTTATAGGACAAAGGAGAGTTAAGATTGTGGA
TGGAATTAAGATTACTAATCAGATGATCTTATAATAGGGAGATTATCCTGGATTATCCTGGTGGGCCCAATTCAATATT
TTAAAAGGTAGGCAGGAAAAGAGAGGGAATTGTGACTAAGGAAACTAAGGGGCAGTAGTCAGAGGGATATAACATTGCG
TTCTTTAAAAATGGAAAAAAGGGCCACAAGCCACAGAATGTGGATGATCTCTAGAGCTGGAAAAGGCGAGGAAAGAGAA
TTTCCCCTAGAGCATCCAGAAAGAAACTCAGCCCTATGAACCTCTTGGTTTTAGCCCACTGAGACTCATAGGACTTCTG
TCCTATGGAACTGTGGCATGATAAACTTTTGTTGTTTTATGCCACTAATGGTAATTTGTTAAAGTAGCAGTAGGAAACT
AATCTGCGGGGTGGCTGTTAGAGCCTGATTTATAGCTATCTACCTTCAGAGCAGACAGTGTGACTGGGAGCCCCCTGTG
ATCACCATGTGGGGATGTTATAGGTTAGATCAATCATTTATTCAATTATTTATTAATAAACATTTATTGCACATCTACT
TGGTACAAGTCACTGTTCTAGGCCAAACAGTAAACAAGACATAAAAAATCTTGCCTTCATGAAGCTATCATTGTAGAAG
GGGAAAGATAATAAATAAGTAAAATGCATCATATATTAGATAGCGATAAGTGATGAGGAAACTGTGAGGAGGTAACAGT
GATAGGAAGCAGTGTGTGTGTGTGAATATGCATGTGTATATGTGTGCATGTTTATATTAGGTTTGTAAATTTTAGATGG
GGCTTCTAGGGCAGGTTCACTGAGAAGGTGATATGTAAATAAAGACCCGAGGACTTCTTTTAGGAAGGAAGAAACAGCC
AGTGACTTTCTATCCCAAGCAAAGGAAATGCAAAGGCTCTGAGGGCAGAGGGTTCCTGGCACGGGAGGGATGGGAGATG
GTGAATAGGTGAGAATGTAGGTAAAACTTCCAAGGTGCCAGGTTGATTTTTTTAATAGTAGCTTATATTCCCCCTCAGG
CCAAGCCTTGGAGATTTTCTCCTCAGCTGGTGGTTCTTGTTTTTTTTTTTTTTTTTAAATTATCATTTCTACTGCAGAGA
AAAAGCAGACCATTTCCAAAGGGCAGCCTAAGGGAGCTGGAGGCAGAGAGTATCAGAGAGTGTTTCAGTGCTGATAACC
AATTTTATGGATCAGTCATTTTAATTAATAAGGAGAATGGGGGAAAGTGATGCAAACAATGTAAGTCCTGGTTGGCATT
TCCTTGAATGTTGAATACCTCTTACTTTTCAAAGGGTAAGGAATTTGGTTAGTGACTGGAAACAGGCAGAATTGGGGTT
GCGCTAAACTCAACCAGAGGTCACAGAGTACTGTTGGCAAAGGTTGGCCTCTTTTTCTTGCTGCACGTGGCTCGTATTT
AATATACTACTGCAGAATAACTTTGATCTCTCTGCCTTTAGACAGAAGTCACCACCACTATCCCCCTAAAGCTATTGGC
TAGCATTTCTTTAAACAAGCAGGCTGCACAGAGCTCCTCATGTGACTCCAGCAGGGGAGGAAGGGAGGAAGTTGCATGG
GTTGGACACCCAGAGCTAAGAAGTAGAGAGATGTAGGTAGAAGGGCCAGCCAATTGGCAGCAGTAGGCTGCAACAGCCA
CACACTTGCCCCGGGAAGTGGGAAATAGGAGGGATGCTAGAGCTTGGTTTCTAACATGGCAAAGATCTATGAGAGCGAG
AGAGAATAGTAATGGAGTAAACCAAAGGAAGAAATAAGATGCCTCCAGAGGGATATGGCAGCTTTAAAACATGGCCTCA
AAATCCTTTGACACTCCTTCCATCAAGAAATGGGGTCTATGTCTCTTCCCCTTGTATCCTCTTGTGACTGCTTGACCAA
TGGGATGGGGTAGAGGTGTCAGTTTCTGGTGCAGACCTTCAGAAATGGGTCGCTTCTACTTTGTGTATCCTGAGAGGCT
TGCTCCCAGAACCCAGCCAACATGTTGTGAAGAAGCCCATAGAAAGGCCCGTATGGAGAGGAAACTGCAGTCAGCCATG
TGTGAGAGTCATCTTTGAAGCAGATCCTTCAGCCTGTCAAGCAATTCCAGCCGACATTACATGGCACAGAGATGAGCTG
TGCCTTCTGAGCCTTCCCCAAATTGTAGATTTGTGAGAAAATGAAATCACTGTTGTTACTTTCAGCTACTAAGTTTTAA
GGTAGCTTGTTATATGTGAACGATTGTAACAGGGTGCATTTTAGGTGACTAGGAAAGAGAAATACCAGGTTTCATGCAA
TATTGAGGTTGCTTTGTTATTCAAGTATATAAAATATAAATCATATGATTAAAATTTTTTAATCATTTAGAGTTTTTTT
ATTCTCTCCTTCGAAAAATGCACATATGCCAACCTTTTGAATACAGTTTCAAGAGTCTGAATACCTTCTACATCCATCC
ATGGGCATAGACTCCAAGCTGAGAACCTCTGTGGTCAGAATTTCTTCTCACTACTGTGTTATAAAGTGCAATTTGGTGT
AAGCTTAGGGAAGGAAGAGGGAGAAGACACTGGACTTTCTATTGTTAGACTTGTATTTTATTCCAATCCTTTCATAGAT
TTGCTCTTTGATTGGAGATAAAGTGTAAAACCTCTCTATATCATATTCTATATCTATATGATATTCTATATCATAATTT
CTTGGATGGCAAAATGTGGATTAAAATTCTGTCCTTTCTTTCCTCAAAGGAATGTTGAAATTAAAAAAAAGAAAAAAGA
AGTGAATATGCTTAGAAAAGCCATAACTTGCCCATAAGAGGTACACAATGAATATTTGTTGAATTTTTAGCTGTCGTTA
TTGATAATGGATTACTTAATTAGGTCGCTGTGGTGTTATGATATAGATACTTGTTTTCATCCATGGTTCCTGGCTTCTA
GCTCCCATAATCCTTGTTATAATGTTGGGGCACTTTAGGCCTCAGGAAACGGAATCTTTCCCTCTAACCTTCTCCTGTC
CTCCTTTCACTTGCCCAAGGCAGGACTCTAATCTGATTGTCGGTCAAAATACCCTCATTCCAGATCCTGTCCTATGCAG

Fig. 6.51

GCACATGGATGAAGCTGGAAGCCATCATCCTCAGC..ACTAACACAGAAACAGAAAACCAAGCACCGCATGTTCTCACT
CACAAGTGGGAGTTGAACACTGAGAACACATGGACACAGAGAGGGGAACAATATACACCAGTGAGGGGAGGGAACTTAG
AGGATGGGTCAATAGGTGCAGCAAACCACCATGGCACATGTATACCTGTGTAACAAACCTGCACGTTCTGCATATTTAT
CCCATTTTTTTTTAGAAAAAATAAAGAAAAAACCCCAAAAAACCAAAATACCCTCATTCCAGAAAGAGTCCTGCTCTA
TACCTAAGAGGAATGAATGCTACACAGAGAGGCCAAGAAAAGTCTGAGTAGATAGGCATTGATGGGTTTAGATCATGCA
CTTTTTGTCCAATCACATTTCTACAGGGTTGTCAATCATGTTTATGTAATGAAGCCTCCATAACAACCCAAGAGGATTG
GGTTTGGGGAGCTTCCAGATAGCTGAACACGTGAAGGTTCTTGGAGGGTGGTGCATCTACGGAGGACGCAGAAGCTCAT
GCATCTTCCCTCATACCTCACCCTACACATCTGTATCCTTTGTAATATACTTTATAATAAACTGGTAAGGGTAAAAGTG
TTCCCCTGAGTTCTGTGAGCTGCTTCCAATTCCAGTTAATCAAACCCAAAGAAGGGGTCATGGAAACCCCAACTTGAAG
TTGGTTGGTCAAAAGACACCAGACTTCTGACTGGTGTCTACAGGTGGAAGCATCTTTGGGACTGAGCCCTCAACCTATG
GGATCTGATGCTATCTCCAGGTAGATAGTGGCAGAATTGAATTAGAGGACCCCCAGTTGGTGTCCACTGCTTGATGTGT
GGGGGCAAAACTCCACACTTCGGGTAACAGAAGGCTTCTTCTGTGTTGATGACTGTTGTTGTGGTGGCGTGAGAGTAGA
GGAAAAACACGGTTTGAGAGAGCTTTTCCTGACACAGAAGCCCAGACCTTTAAGGGCAAAGTTTTGTCCATAAAACAAC
CCTAGAACAAGGTCCCCAGGGAAAAAGCACCAAAGGGTATAGGAGTGGAAAGAGGGGGTCAGTACAGGCATCTCTGCCC
CTGTCACCCATGTTACATTTTACCCTCTGTTATCCTTCATTTTATAGTCAGTGTAGGGGAACTAGGAGAAATGGTAACA
CGCAAAGATTGGTATCAGTTTACACCAAAACAGAACACACTGCTGGTGAGCACAGGGAGTTGGAAACAATATACACAAA
AGTCTCACAAAATAGAAAAGAACATGGATACTGGCTCTAACATTGACGTCATTGGGATACAAAGTCTATTTACATTGTT
TCTTATGAGGTCAGCAAAACATTTCAAATAGCAACTCCTTGGCTGCCTGCAGTGGGTCTGCAAATGTGAAATAAAACAT
GAACTGCAGACCTGACTTATGAGCAGGACGTTCCAAGTTTCCTTCTTTGCTTTTTCTGTAACAGATCACCTTGTCCTTG
TTACTGCATTGGTAGATTTTTATCATCTCAGATGAAAGAATCCTAGTGTTGGCCAGGGCAAATCCAAAACACAGGTGAT
GAGAGGCAACACCCAATGTTAAAACCTGATCCACTGTGGTTATTTTTCTTTCCCATTGGGAAACTATAAGGATGCAAAT
GGGCAGGAGAGTAAAAGCAGCAATCACGTCTGCATGGACTGAAGGCAATTTAGTTTCTATCAGACATGGTGACAGTGAT
CAATGCATCACAAAATCACAAACAACAGATGCCAAGCACAAACTGTGTCACAGATCCCAGATCAAAGATATCTACCATA
TGTTTAGCTTTCACATCAATGTACATCAAGTCAGTTTTGAACTAGAAGCCTTTAGATATACAGTTCATTACTTCTTTCT
CCTTTTTCATCCTCTTTTGTCTCCAGGAAGTTCCCAGAATCCGAATTTAATCATTATTCAGGTTTGGGTATATTTGCAT
ATAAATGCATTGCTTGTGATGGATCCAGTGAAAGTTCATGCGCAGGGCTGCCCCTGCCCAATGCTGCACTGGCTTTCTG
CCCCATCAGTGCTGGAGCTGGCAGAACCCCCCTGCAGAGGAACGGAAGCAAGTGACCTAGAGGGGCCTGCAAAGAGTCT
TAGGAGGGCAATTACAACACGTGTTTCTTCCTTTTAGGAGTATCTAATTGGGTTCAATGTGAAGGCAGCTCACTGTCAG
GCACATAGAAGAGACTCTGAGTTAGAGAGGTTGAAATGTGGTCACAAAATATCCATGAATGTATTAAATCCATAAGGAT
TTATTAGGGGCTCTTAAGCATTTGATTCCCTTTAAGGAAATCACTGCTAATAAAGAGGCACACAGCTTGAGAAGCTGAA
GCAGAGTGAAAAAAAATTGATTTATAGCTCATAGGTAGAGAAAGCAAAATTCCTAATTAGTCATTTTTTTTAAAGCACG
TACTAAAGGGAAAATTACTATATATTTTTTTCCAAAGTTTCCTTGGTCTGGCTGTTGTTTGCCATTTTAATTACAGATT
TATTATTTATTTTGTATAATATATAACTCAGGAATTATTATTATTTAATTTTTCCTCTTTTTTTTGCATTGGGCTTGGT
GCTGGGGAAACAGAGACAAATTATGCAGAGTCCTTTCTTGTTGGGAATTCACACTCTGGCAGCCTGGTGTAGCCATGTG
CACAAACAACTACTGTGCAATTTGATGAGAGAGACAGAAGGCAGGGCAGTGGCACAGGTGGAAGTGCCCAGCTAGGGTA
CAAGGAATTGAGGGAAGGCTCTTGAGAGAGAAAGAGATCTGAGAGCTGTATCTTCCTAAAAAGTTGGTGTATTCCAGGT
AGATGAAAATAGGATTGGGAGACAGAGGTGGACATTCTGAGAAGGGGGAGTAGTAAGTACAAAACAGAGGTGGCAATAG
CATTATGGACTTGGGGACCGTTAGTAGGTTGATAGGATTATAGCACATAAATATTAGACCAGAAAGACTGAGAAATGAT
GCTGGAGAAGAAAGTAGGACACAGGTCATGGAATGACTTGCAGGCTGCACCAGAGGCACTTGGATTTTATGAGAGCCTT
GGAAGGTTTCTGTGGCAAGTGTTGCCAGTGCCCCTCTCATATTCCCTTGGCAGTCACTGTTACTGTACAAGACAACAGC
TACAAGTCTCAGAGACTACAAGTTTGCAAGACTGTAATGAGGCAGGCCCAAAGCACCAGAAGTTAACATCCTTGAGAGC
ATCGCTCAGACAATGATGCATGAATAGCTCAGATTCTTCACCCCTGGTGAGGATGAGTCTGCAGCAGGTTTTGTATAAT
ATCTTGGAGGTTCCCGGTGACATTGAGTCTCACCTGATCACAGCAGTTGTCTGGTCATTTACACACCAGTATTGTTCCT
TCCCATACTTGCCATTCTTCCATACCCTCCTACATTTTGCTTCCTGGAATCCCTTCTCGAAAAACTACTCATGCTTAAA
TTCTTAGCTCAGGCTCTACTTCTGGTGGAATCCAATCTGGGACAGGTTTTTGGCTTGTGGAGGAACAGTGGCAATGAAG
GCGGAGTCTGGATGATTTTCATGAGAATGCAAGAGAGAGTGGAAGACTCTGGTTCAATTTAGAAAGCACAGTTCGTTGC
AATTATGGCCAAGCTGTATGTATTCTGGGAGACAGGGAAGGACTTTTCGATGATTCAAGGTTTAGGTTTGTTGACTGGT
GGGATCCATTAAGCAAAATAAGGAATACAAGAAGAGGAATAGGATTTTTGGTGAAATGTGTGGGATTTGGATTTGATTA
TGCTGAATTTGAGGTATTTCCATGGACAGTGTAGGCATTGGGGAAGAGGACTAGTTGCGACACCCCAGTTTGGAAGCTG
AGCATCAGCCCCTGAGTAGTAGTAGAAGAAGTGGGTGTGGCTGTGGTCACTCAAGCTGAGTGTGGGGATGGGGAGTAGG
AAGAACCCAACAGAAACAAACTTCTGGGAGTACCAACCTTTAACAATCAAATAGATGAGGAGGAACTTGCTACAGTGAA
GGAGTGATCTGTAGCACCAGGCAAGGGCCAGGGGAGTGATGTCGTAGAAGCCAAGAAAGGAAATCATGTCAGGAGGAGA
GAGGAAGCAAACAGAGTCAAAGACTGCAGAGAGGCTTGGCAAGGTCAGACTTCAGGCTCCCATTGGATTTGGAAGTTGA
GTGGTCATTGTTTATTTAAGAAGTTCATACTAATTTGGATCAATTAGAAAAGTAGTAGAGATTACCTCCACTTAAGACA
TTTAGTTTTATTACTTGAAAACTAGGCTAACCAATAATTGCCTAGGACAGGGATTGCTTTAATGAATAGGTAAGAATAA
TTTCTAATTATAGGGTGGCATGATTTGCGTTACCATACTGAAAAATGCTGCCCCTCTATTTGTATGATTTGTATGAAGT
TCAGTACTTGGAAAGCTTCAAGTTTGTTCACCTAATTAGGTAAGGGTTTTTCTTTTAAGCTAGTTGCTGTTTTTTAGTT
TCAAGTTGGTCCCTATTTCTGTTTGAATTATCACAGGTTTCAATTTTATGTTGCCAAAAGATAAGATTTAATACCATAG
CTGATGCCCCTTTGAATTTTGAATAACAATTCTATTTTCTTTATACTATTTAGTTATTTGTGGTTAAGAATCTGGTCTG
TAGAGTTAGACTGCTTAGCTATTACAGTAGCTTCAACACTTACTCTTTAAGATCCCTGGGTAGGTACTGTGCTTCTCTG

Fig. 6.52

TGCCTTGATTTCCTCATCTGTAAAATGGAGAGAATACAACTTTTTTTCAGAAGTTAATTCTTAGTACCAAATGAGCTAA
TTCATATAATGTATTTAAAGGCATTTTAAATGGCACAGAGTAAATGATCAGCACATTTTAGCGTTAGAAATATTTGTTA
GTATTTTTTCTATTTATAATTTGTTACTATTACTAAAAACTGGGAGGCAGAATAGTATAAAGTGATAATGATTGAACTA
TAAAACAGATTAGGGTTCTGCTCTCAAATTTTCCGCCAACTCTCTGAACTGGGACAAGTCCATTCACCTCTCTGAGTTC
ACATTCTTCACCTATAAAAGAGGGAGGTTAGAATAGAACATCTTTCAAGCCAGCCTTAGTTTTAATATTCTGGGAAGCA
CACCTTTTGCTTGGAAGTAGCTGATTTACACAGTAGTCTTAGCTGTAGTGTGTTTTCCCCTAAGGGAAAGATAAATGGG
CTAAAAGGAGAAATGGAAGGCATTTCCATTAGGCAATTGCTTTCTGGAAAGTACAACTAATGTTTTGGTTGGTTTATTT
TCATAGAATTCATTTCTTGGGCTAAAACATAAATCAGTTACTATATTCAGAGGGCTTATCATTTCTTTTTTGAGTATAC
TTATGGTTGGAAAAATTCCAAGTGTTTTTCATTTTTTTGCCCTGTTTTTTCATACCTTTTACAGAAAAATAATTGTTTT
TAGTGCATTCATTTCATTTGCTAATGTTATAATCTGTACAAAACAGCCCACCTAATTATTCTTTTAGATGTTAAACATG
ACACATGTAAATAAAATGATAATTATAGAATGTGGTGTTTTCTTGTATCTTACATTTTTTAGATCTGAAAATTGGTCCC
TGTTCTTATTCTGCATGTACTCCAGTGAAACTTTCCCTTGATGAGTTATTTTTCATGCGCACACATGGGGGAGCTTTTG
AGACACTAGTTTGAATGTTACACTTTGAAGACTTTCTCAACAACTTGACCCTAAGATGATGGACTGGAACTCTTCATTG
AAGGAAGTGTAGCAGGGTGCAACTGGCTGTAGAACTGACTTCCCTAGCGCTCACTGTCTCATATGCAGCCCTAGAACCA
ATTCATAAATCTCTTTGAAAGATAGCCATAAACATGTATTCTCTCACACAAAAGAGTAGGGCTAAGAAAATGAAAACGA
AAAGTGAAGGCAGATCCAGTATTTTCTAAAACTTCAGTAAGAAGTACCTGAGGTCATAAACTTGGGGGGCTGCCTCTTC
CGGTGAAATGGGGGAAGTCAGCCAGAAACTCTGATTTTGACAGCAACATTATTTAAAGGAGTTTCTGAAATGATCAAAC
ATGTTCTTCCATAGAAGAATAAAAGTCTAAAAGCACATGAGAATATTTTTAAAAAATCACCTCTGGAGGAAGCAGAAAC
AAAAGTGAGTGGCTTGAGTTGAGTCCGATGCTCTTGGTGTCTAGCTCTGTTTGCCATTTAAAGAAAATGCAGAAAAAATA
GAAATGTGTTAAGTGAAATGAAACCCCATAGGACCTTGACTGACTTTATTGTTATCTTTCTTTTGACCCTAATTTTTGG
GGTAGCTAAAACCGCAAATAAACATATAGAAATAGACCTGGTGTTAGCCACATAGATACATGAAGTAGCATCAGGAATG
ACTGGGGCTTTTCTCTGCCCCAGTTTATTTGGAAATAACTCCAAACTATTTCATATATAAATATATATATATATTTCAATG
CTTATCATAATTACATCTGAATATTTTGCTCATAAGACAAACTTCTAAATGCCCTTAAAATGAGGCTTCAATGAGGAAA
TAAATACAGCTGATTTTAAAATGTTATTTAGTATCAAGAAAAAACTCTTTAGCAAATATTTCCTGTGAAAAGTATACAG
TATAACTAGCTTAATATATAAAATTAAACAGAATCTTTCATGATGAATTGAAAATAGGTAAAATTTGTTTTCCTTCTCA
TTGTTTTTTCATATGTAGACAGCCAAGTTTCATCCTTCACAGTTTGTGTTCAACTCCTTGCTGTTTTTTTCTCTAATCT
TTTCCTCAGTGCCTTATTCATTCTCATGGTTTTAACCATTAACTATATTCCCATTCTGGGCTTTCATCACAGATTCCAG
TTGTACATTTTCTATTGCCCATTGGATGTTCCTACCTGGATATGGAAGTCAAATTGAATGTCAGCTACCAAATTTACCT
TCCATCCTCCACTTGCTTCCTCGGCTTCTTTCTTTACCCACCCTCCCAGCTCACCAGTTCCTTCTGACTTTCCCGTATC
TGTTCACTAAACTACCATTTTCTGAATCACCTGGCCTTGGAAATTTGGTGTCATCTTTGACATTAACCTGTCTCATGTA
CACTACTGTATCAGGGGTTCCCAAGGCCACCCTCAGACTTGCTAAAAGGATGCATGGGACTCAGAAAAGTTGTTATAGT
CACAATTATGTTTTACTTAGTGAAAGAATACAGACTAAAATCTGAAAAGCAAAAGATATGTGGGGAAAAGTCCAGGAGA
AATTAGGTGCAAGCTTCTAAAAGTTTTTTTCCAGTAGAATTGCACAGATGCACTTAATTCTGCAAGCAATACCGTGTGA
CATATGCAAAGTGTTGTCAACCAGGGAAACACTTGAGCTTTGATGTTTTTAATGGAGGCCAGCCACATAGTCATGCAGC
ACCTGTATGACTTACCTCAGCTACTCAGACTTCAGCTCCTCAGAGAAGGAACAGGCAGCCATCATGCATCACATTGTTA
GCATAAACTATCTGATCAAACTGGTACCACATGCTCCAAGGCCTGAGGCATACAACACTCTTACCAGGCAGAATATACC
TGTGGCTCAAGGCTTACTCTCAGGAGCTGGCCTAAGTTCAGTCTTGAAGAGAGGTTTTTCTTGGGCATGTGCAGGGCTT
GAGCCACCTAGATTTGCTGAGTTAATCTTACTACACATGCACGAAAAATCACCAAGCTTTGTTGGTTACTGGGAAAATT
CAGAGCACATACTGTGGTGTTAGATATGTGTTTGAGTTCTGCCTTTGAGACGATTAAATGAGATGTGATTAACATACTG
CTGGACACATAAATACTAAGTGATGTCGATTTCTCGTTGTTGTGATTTTTATTATCTCTGCCCTTTTCTATCCAATATC
ACTTCTTATGTTTAGCCTAAGACCTTATTGTGTTCACCTTCAAGGTGCACTAGCTTCCCATATCAGTGAACTTAGGATG
TTACGCTGCGCTAACAAACAATCTCCAAATTGGTATCACTTGCTAAAACAAGAGAGTTATTTCTTGATGCTGCCGTTTG
TCTATTATGAGTTGACTGCAGCTCTGCTCCAAAGTATAATCATTCTGGGACCCCGACTGAAGGAACAGCCCTGATCGGG
ACATTGGGGCAAAAAGAAAAGAGCGTATTATAGAACCATAAAATGGCTCTTAAAATTTTGCTTGAAAGTGGTGCATATA
CTATGTATTCCCATTTTATTGTCTAAAGTAAGTGACACATCCCAGCCTGAGGTTATTGGATTAGGGATGTATACTATTC
CCTTGGAATGTTTGAGCAGTAATATAATCTATCAACTTCCTAGCTAGCCTCTGTGTTAAATGATCATTAGAGTATCTAA
AGAGGCTGGAAGCAGAGAGGCCAGCTAGGATACACTAATCTATCCTGCTGACCATCACTAAGTTCACATCCTCAAAGTT
CAGTGTTGACAAACCATTTCTGTTCTCTATAACTGCCGTATCATGGTCTTCTCTTGATTAGTCACGTAAGCTCATTTTT
AAGCTCAATCACCCATGACTTTCCTATACGCAAGTGAAACCATAAAATTAACCAGCATCGGGCACATTTTATCTTAGCA
CCTTTTATACCTTTGCTCATACTTTCACTGAGATTGAGGGCTCTTTTTTGAAGATAGTTACCATTTCATTCACCTTTGA
ATTCTCCAGAGCCCAGGTACCTTACCTGTGGTCATGGCTGAAACATGTAATCAATTAATGTAAGAAGAAGTATTGTCCC
AGTGTTTCAAAGAAATCCAGGTGCTATTCAATGACAGTGAGACGTCAGGCCAAGGGGGTGAAGGGAGGCTGAAACCCAG
TCCATGCTTTGCTCACAAGCCAAGTCCTGAGATGGGATGAGGAGAAAGAGGTGTCTTTTTCTAATCTCATTAAAGCACT
GAGTAGTGTGGTGGGGGCTTTTCTTCTGGGGTTTTGTTTACTAAAAGACTTCCTACAAAGAACCTGTAGGCCCCACAAA
GATCATATGCATGGACATTATTGTAGGGCAGCAGGAGAAAAAATGCTATTTTGGTTCTGCTTTCTAGAAATTTTCAAGTG
CTGGGCTACCAAGTCAACTAGCTCCTCTGCATCCTTTAGATGTCTGTGGCTGAGGACAGCTTCATGAGATTGGGTCCTC
AGAGCTGCTTTGCACTTCCCAAGAATAGACCTGTGGACCATGTCCTTTTTGTCCACCCAAGTTTTATTTATTTTTGGGA
CAGCACCTCTTTTACCAGAGAAAGTAACTCTTGCGGCTAAAAATATACCGGAAATAAGAATGAAGAAAAGTAACTGGAT
CAGCTATACTTGGTAAAAATACCTAAAGCTCTGTTTCATGAAAGTGTTTCTAAAAATAAAAACTAGTCCCTGGCAATGC
AGCAAATAGCCAAAACGACTTCTTTGGTTGATTGGTTTAATGTTTTTTTTTTTTTCTTTTCCTGGTTACAGTTTTAA

Fig. 6.53

AAACTGCTCCACAAGAAATTTCTTCCAAATTCAGTGCCAATAGGGAGCATTGCCTATTAGCAGGCACACAATAGTTAAG
AGCAGAAAGGCATGCAATAGGGCTTTGATTGTCCAAGGCAGGGTAACCATGTATGTAGGACCTTTATTGCTGCCTGGGA
GGTGCTTCAGTGTGGGGAGTAAATGCTCAGTCAAATTTGGCATAACAGCTTTAAAGCAAGTGGAACCACTGTGCATGTT
GTCAGCAACATACTGCTTTCTTTCTTTCTTTCTTTCTCTCTCTCTCTCTTTCTTTCTTTCTTTTTCTTTTTAGTTTT
TGAGTCGGAGTGTCGCTCTGTCGCCCAGGCTGGAGTGCAGTGGTGCTCTCTAGGCTCACTGCAATCTCTGCCTTCCGGG
TTCAAGTGATTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGATTACAGATGGGCACCACCATGCCCTGGCTAATTTTTGT
ATTTTTAGTAGAGATGGGGTTTCACCATGTTGGTCAGGCTGGTCTTGAACTCCTGACATCGTGATCCACCCACCTTGGC
CTCCCAAAGTGCTGGGATTACAGGTATGAGCCACCATGCCTGGCCCTTTTTTTTCTTTTAAAAGTATTTTACTTATGTT
TCTATTTTGTGTCAAGGGGGCTGGTTCCTAGATTACTGAGGGAATAAGCCAAACAGAGCAAAATTTGTGTCACTCATAT
TAAGGTATTAATTTCAGCACTAATGAGATGTTGAAAAACATGGCAAAGGTGATTAGAGGATATTGAACGAAGGTAAATT
AAGTAGGTAAACTTGGATCCTTATGTTCGGAATCCTGGTATTAGGAGTAGAGTATGGAGCTAATTGCACTGTGGTTGGA
AAGGGTTTTAAATTATAGAGAAGATGAAGTTTGATCAACCCAACATGTGTCCCCTTTACTAGTGGGAAGACACAAGGGC
ATTCATGTCACCATGAAATATTCTTATTAATTTATTGAAATACCAGTGTATTTGTGGCATTTTGGGATTACTATCATTA
CCATAACAGAACTGTTCTTGCTTCATATTTATGCGCTCCAAGATTGCTCTAAAATTCCTTCATATCCAACTGGGCAATT
ATGATTCACCCATTGGACAAAACAATATAGTTCTATTCTAGCACTCAAAGGATGTAGTCATCACTTCCAAGAGTGAGCA
GACTTTCTGGAGCCAGGTCAGAAAGAGACATTAATGTTGTCTTCATTTAAATACTATGTGTAGAAAAGACCTATGTATT
TCCCATTGAGAAGATGGATCATCTTTTTCAGGAATTGTTTTTCATCTGTAGTCTCATCAGATCCTGTTAATATATTTTA
CTTTGCCTTTGCTTTTTTTTCCATTTGAATATATCTTTTTCTCCTTTCAGCATGATGAAACGTCATTTAATTATAAATT
TTTGTCTTCAAGACCTCCCTTTAAGCCTTTAACGGGGAGTAATATAATGACTACTGGTAGGTACAGTCAGTCAGTCAGT
TACCTCTGGGATCATTCTTTGCAGTTCTTGGCTCTTGGTTTCTGTAGGAGTTGGCAGGTAGATGCCAAATTTTCTGTCT
GAGTGGTCACTCATGAGATCTTTGACTAAACTCATGGATTGTTTCTTATCGAGGCCTGAGTTGGCCCTGTTGTCTGTTT
TGGCTAATAAACAATATTTGGTCAGAATTTGAAGCTGATAGCTTTCTCTCAATGTTCTAAATAGATTCTATTCCTTTAA
AGTGGTTAAAGTAGAACAATCCTTCAATCCCTTGATCTGATTTATGGCAGTAGTAATAAAGAGGATTGTTACCCCAAAT
GGGCCAGTTGTTTATGCTTGTTTATTCATTTATTCTGGAATGTTTGAGTGTCCACGATATGCTGACTCTGTGCTAGATA
CTGGGGGTTCAGTAGTGAGGTCCAAGTCAGATATAGTCTTTGTCCTCATAGTGTGTAAAATAGTGAAATCTAATGGGGA
ATACAGAAATAGGCAGTGACAATAAACTGTATTGTGAGGAATGCTATAGGCGAGAAGCACAGTGAGCTCACAGGAGGCA
CATGGACAATATTTGGTTGCCTGTGTTTACCAGGAAGTGTGCTAAAAGCTGAGTTTACAGTTAACTAACAAAATAGACA
CTGTCCTTGCCATCGTGAAACTTACTATTGGTGAAAGTCAGTGTTGACTGAATAATTACATACATGCATACGTACGATG
TTGCTATAAAGGAAAACACAAGTTGTGATGAAAGGCTCTATCAAGGGTTCCAATTTAGACTGAGTGTTGAAGGACCATG
GATCAGAGGTTGAGACATTTAGGCTGAGACTTATCATTTGGAGATAGTCAACAAAGAGGCGGAAGAGAAAGTTTCCAGG
TGGAAAGAACATCACTTGCTAAGGCCTGGGACAAGTGGGAATGGGAGAATGTATTGAGCAGAATGTTTGCTATGGTTAT
GTCATTGTGTGCAGTGAGGGGTAGAGGCAGAGGGAAGGACCAGAGATGCCGATGAAGAGTGACCAGGATCACATCACCA
GAGCCTATTCAACCACAGGCAAGTGTCTTGACTTTACCTGGAGGGGAATGGAAGAGCTACTGAGTGTTTTAAACATGAA
GGACATATGAGCAGATTGATATCTTTGGAAATTCGCTGTGGCTTCTGTAGTAGATTGAAGTGTGGGATGCGTTAGGAGG
CCTGGAGACTAGGGAGTAGGAGGCTGTTACAGGAACCCCGGCTAAACAGTTCACTATAGAGTAATGCTGGGAGTGTGAG
CTCTGGGGCCACAATGTTTGGGCTTAGTCTTACCTGTGTCACTCAATAGCTGGGAAGCTCTGAGCCATTACTTTTCTTC
TCTGGCCTTTGTTTTTTGCTTCTGTTAAATAAGGATGATGATAACAATGATGCTTATCTCATAGGGTTGCTGTGGGTTT
ATCACCATTTAGTGCTCAGAGCAGTTTGTGGCCCATTCTGGGACTCTGATATTCATAACTATAAGATAATAAATTTGTA
TTGCTTCAAGTTACTAAATTGGTGACAATTTGTTAAGCAGCAATAAGAAACTAATACAGGACTTTCTGACGAGGCCTGA
CAGTTGTAAGCTGTAAAAATCTGGGAATCAGGAGATATATATACGTATGTTTAGATGGAGTCTTGCTTTGTCACCAGGC
TGGAGTGCAGTGGCGCGATCTCAGCTCACTGCAACCTCCGCCTCCCAGGTTCAAGTGATTCTCCTGCCTCAGCCTCCCA
AGTAGCTGGGACTACAGGCGCGTACCACCACACCCAGCTAATTGTTGTATTTTTAGTAGAGATGAGGTTTCACCATGTT
GGCCAGGATGGTCTCAATCTCTTGACCTCATGATCTGCCCACCTTAGCCTCCCAAAGTGCTGGGATTACAGGCATGAGC
CACCATGCCCAGCTGGTAGTATATTATAAAAGAAATGATATTAGATACACTGTATTTTGTGTAGCCTGTGCCCTCCAAA
AATGCTCATGGTTGAGGGGCCAGTACAGGTAGGAACTGGCTTTCACTGATAAGCCCTGTGCCTAGGGAAGAGACTCCTT
TTGTAATTTATCCATGTAAAAGGGGCATCTTTTTCAAATTTACACATAGTCACTTTGGGTAGCTAATGGCAGCCCTGCC
TGGCACAAATTAAGTACTCAATAAATGATATCTGTTACTAACTGTTGTATGTGAAAATTACTGAACCTTTCTATGCCCA
TTTTCTTATCTGTAAAATAATGATCCCTACATAATAAAATTGGTTATAAGAATTATATTAATATATGCAAAACACTTAA
AATAGTGCCTGGTACAAATAAGGCATGCCAAAAAGACAAATAGGGGTAGGGAGCATTCATTCATTCAACAATGTTTGAG
AGCCAGCTATGCAGAAGCACAGGGCTGTAGCTGGGGAGAAAGAGACAGATATGTCCCTGTCCTCATAGGGTAAACAAAA
ATTTACCCTGATAATGATTTAAAGCTGTGATGTGTTATAAAAATGAATTCTAGGAAATGTAGACAATGAGGAATATTTG
AGAAAGTTTAGAAGTAGAAAGAACAAGACTCTGATTAAAGAAGCTGATTCCAGAAAGATTGGAAAGGTTTCAAGAAGGA
GGGCAAGGTTGGCCATGTTGCCCACCTTCAGAGCTAGAACCAGATTACCTAGCTAACTTTGTCTATGACTTAAGAAATG
AACTGGGATAGAAATTAAAACATGCAATAATATATTTAGCATTTATTTGTTGCACTGTAAAATTCCCTAAAGGTTATAA
AGAAAAAAAATATACGTATACATATATATGTATATGTGCATATTTCACCGATTTTTAAGCATATTATATAACATGAAAG
ATTTCTTACTTAAAATTATGAAGTAGCAAATGAAGTCTGGATCCTAGCTCATTACAGATATTTCAGGATTGGATTTAAT
TTATCATCTTTTTTCCCTTTTGAACTGGGAACAATGCCCTGATGATCTATTTGGAGAAGAGATATGATAGTATCTTACG
TGACCTGTGCTTGCTCTATTCTGTTTGCTGTTTCCTGTTTAATTCTGATGGTGTTGTGGATAAGTGAGATGACCTTCCC
TGGAGCAATTTATGAAAGCACTGTTGAATAGAGAACAGAACATGGTGGAATATTCATGGGCGACTTCAGTAGTTCAGGA
TTACTCTCAGACCGAATTATTCTTCGGAGCTTTGCTGAGGGCTTAGAGTACCCTAGGCAATATAAACGTTTCTTTGATA

Fig. 6.54

TGCTCCTCAGTATTTCTTCTTTTTAAAGAATCCCCAAGAGGATTTGCACCTGAAACTGTAGCTAGTGCCATTCTTTTTT
GCTCTCCTTTTTCTCCTCCCTTCTTTCTAACAATTTCAAAATGTTGATGGTGTTTTTTTGGGGGGAGAGAGATGGCAAAA
AGTGTCCATTGGAATTTATAGGCATGTAGGAGAAAACTGCTTTCCCATACAACATTATGATGCCAACACTCAGTTGTCA
TTTTGGGGGATTGTTTTTGAACTGAAGGAAAATGTGTAGCAGCACTATTGGATAAATCAGCAATCCTGGCTCACCTGTA
TCTTTCAAGGAAAGGAAGGCTTGGTGACAGTGTTGAGGGCTGTGGTAGTCACAATAACAGCCACTCAAAAATGTCTCTG
GAACCCATGAATATATTTTGACAAGGGGGGAATAAGTTCATCAATCAACTGAATATGAGATGGGGAGATTACCCTGGAT
TATCTGGGTGGGCCCAGTGTAATCACAAGGGTCCTCAAGATGGAAGAATGAGGCAATAGAGTAAGTGTCAGAGTGACGC
AGCATGAGAAAGTCAAGCATCACCCAGTCATTGCTGGCTTTGAAGACAGAGGAAGGGGCCATGAGCCAAGGAATAAGGA
CGGCCCTTGGAAGCCAGAAAAAGCAGGAAAATAGATTCTCCTCTGGAGCCTCCCAGAAACTAATGCAGCCCTGTTGATT
AGGCCAAAAAGATCCCTTCTTGGCCTCTGATATCCATAACTGTAAGATCATAAATTTCTATTCTTTTCTCACTAGGTTT
TCCATTAGGTAGTTACAATAGCAACAGGAAACCAATATAGGAGCTTTCTGAAGAGCCTGACAGTTGTAAGCTGTAAGAA
TCTGGAGATCAGGTAGTCTATATTTGTAAAATAAGTGATATTAAACATTTAGAAGTGGTTTGCAACTCTCAGGCAAGT
CATCATTGAGTTCAATAAGACTCTAGAGAAAGAGGTAGCAACTAAACATAATAGAAAACCCATCAAGGTCTATACACGT
AGAGTAAATGAAGGAGACTAGCCTGGTTGGAAGAGAATAGAGGGGCAGGGGAGTGTGGCTGACCAGAGAGTACATGGCC
AGCTCCTCATGGTGATTGTTGCCGTGAGGAAATGTGACCACTTTTGCTAGATCTAGTTTTTTCAAAAGATGCCCGCATT
TTGAAATGTAATGTAAATTATCCTAATATTTAACTCTAGACAATTTAAGTAAAAACCAACAACCAACCAAATGAACCTC
AACACAGGACGGGTATGGCCCGTGGGCCACCAGTCTGAGACAGCTAATCTAGAATTGCAGTCAGCCGGAGTGACTTGTA
TTTTCACGGTTCTGAGTGTAACACCCACAGTTCCACTTTAGAGTTGAAGAAACTGACGTAGGGGAGTTAATAATTGAGC
TAGTCAATGGTAAACATAAGGTTTCAAATTGCGGTGTGTCTGATTGTGAACGCCAAGTTTTTTCCATCTCACTGCCTC
TAAGGCAAAGGAGGAGATTAATAATGGAGAGATAAAAGGAGAAATGGAAGGAAAGAGTTTAATATTTACTAAGCACAAA
ATATCTACCAGGCATTGAACCAGGGATTTTAAGCACATTATCCTTTAAGTCTCACAACAATTTTAAGAGGTAAGAAATA
TTCTAATTTTCCAGGGAAGAAACCTGAGTCCGGGAGAGGTCAAGTAACTTGTACTTGGTCACACAGAGAGTACGTGTCA
AAGGAAACTCAAAAGAACACATTTTCTCAGTGATTACAGGTTTAGAGAAGAGGAACAATGCTTCCTCTGAGCCTGAAG
AAAAGAATGAAATAAGGGCTGCAAGGGAACATGCAGGTTTCACACTACAGGAGCTTGTCTGTCTTGGTGCAAGTGGGAG
GTAAGGCTATCTGGTAAGCTTAAGAATAGTTTATAAGGGGGAAGCAGGTGTCAGACTGGATATTGCAGGAGAAAAGAGG
CTGCCACCAGGGTGACCTGTACAGGAGATGGAGACATGATTTGGAATCAATTGGTGGACCATTGAGAAAGGCCAACAGA
CAGGAAGGCTTTGAGTGGAAAGAATGTACAGACCCTTGCTTCTTTCCTCAGCATTCCTTGCAGGTGGTAACCAGAGAGG
AGCTGAGTGCCAGGACTGGCCATTGGCTTGGTAAAAGTTGAAACCTTAAGAAAGCAGGGTGGCTCAACTTCATTAGCCA
GCAGGAAATGCAAATGAAATCTACAGTACCACATCAATACCATCTGACATCCATCAGGATGGCTAAAATAAAAAAGACT
GACAATGCTGTGTGTTGTGAGACGGTGGGGCAGCTGGTATGCTCCTAGACTGCTGGTGAGAGTGTAAATGGGTAGATTC
AGTATCTATGAAAACCATTTTCAGTATCTACGAAGGCTGAACCTATGTAATATCCTATAGCCTAGCAATTCCGTTTTTA
TAGTCCAGTGGAAATGTGTACATTTCTGTACTGAAAGACATATGCATATAGTAGCATTATTTATAATGGTGAAAAATGC
AAACAACTCACTAATGTTTGGTGTACTGACAAAATGAAACACGCAGTAGCAATAAAGAAGAATGAGCTTCAATACATAC
AATATGGATGAATCTAAAAAATAAAATGTTGATCAAAGCATCCAGATACAAAAGAGTGCATGCCATGATTTCATTTACA
TAAAGCTTAGAATCAGAGCTCTGGTGTTAGAAGTCAGAATGGTGGTTATATTTCAGGGGAGAAGGTGCCTGAGATAGAA
CATAAGTGGGCTTCTAGGGTCCTGCAATGTTCTAATTTTTTAAATTTTATTACCTGACTGTGTTCACTTTGTGAAAATC
CACTGCCTTTATGATTTGTGTACTTTCTGTGCATATATTATATTTCAATAGAGAATTAAGATAAAAAAATATAAGGCCC
AGGTTGGAGTCTAGGATTGTGACAGGGCAGTGTTGAAATTGTTGACAAGTGCAGCTAGGAAAAAAAGGCTGAGTTGTTT
AATGCATCTCCGATTATATTGGGTAAAGGGAGCTGGGGGAAATTAGGGACACAACGATGGTGACAGGAGAAAGAGAATC
ACCACATGGCGGACTGAACGGGGAGCAGCATCTTGCTGTGACAAAGTCCACCATGTACCTGTCATGGGAATGATGATAC
AATATTACATCAGCTGCATGGCTATATCTAATCCTGTTTCAGAAGACGTCAGCAAAGGCCATTCGCGTAGTGCAACCTG
GGAAGGAGTTGGTTGTTTAAGGTGGATACAGAGTAGATCCTGATAGCTCACTTCTTGACCTTGTTTAATTTTTGCCTGT
TAGTTCAGCACTAGAACTCTGTACAAAAAAATTTAAGGCTGCAATATCATTTTAATCAAATCATATGCAATGAAAACAA
AGCTTTTGCTAGAGTTGTGAGCTCACATATGGTTTCTCCTGGTTTGTGGTCTCCTAGGGAGAGAAATGCAGCAGGTTGA
TGATAATGTGAACAGCTAAGTTCCCTGGGTGGCTTTAAAGGGAAAGGGACAATTCACTCATTTGTGTATTTACTAAAA
TCGCCTTCTCTCTCTCAGTTTCTCTCTCCTTCCCTCTCTCTCTCTCATTTTCTCTCTCCCTCCCTCTCTCTTACACACA
AGTGGGCATGCACGCACGCACACACACACACACACATATACACAAAACTAGATTTGGGATCCTTGTTTTAGTAATGACT
AATCACTATCTGGGTATCTTGGTTAAAATAGAAAGGCCATTTGTCTCATGAATCAAAGGTTAAAAAATGTTCTTAAAGG
ATTAATTTCCAAAATTGCTTTCAAATAGCGTGGCTGACCAGCTTTTAGCAGTCATCGTTAATGAGAATGATGGAAAATT
AAGGTCAGGTTTGCATTTTCTTTCTTCTTATTACTTCCTTCTCTTCTAGGTTGATTTGTATTCTTGCCTTTCCTTATAT
ATTGCTTATCTTCCCACAAATTTCATGAAGATAATTTTTAAGTAAGTTTCATTTCTAATTTTTCCTTAGTTCCAGAGAT
TCTGTTGAATGTAGTCGATGATATGTTGTTACAACACCTCTAATGAATTATAAATAGTCCATTATATAGCGCATACCAA
AGAGACCTTCTGATTGAACATGCAAGTTGGGGCCTTTTAAGAACGAAAGGGGGTGCTATGAACACCAGGGCAATGGCTG
TGAACCAGCACTACTTGGGCAAACTGGGATGTATGGGTACTCTACCCAGAGGCCTCTGGGGCAGGAGCTGGCCTTGTGA
AGGCTCTGTCCTGTTAGGGGAGCTGCTTTCTGGCCTAGCCACTCTGGACTGAGTAAATTCACAGGTGTTCACTCAGCTA
GGTTTTCTCTCTGTGATAAATCCTGCAGGGGTTCTCTAATTTAGGACTTTACAGAGGCACTAATTGAAAAAAAAATGAAA
CTAATGCTAGGAATGCTCATGATAAGGCCTAATTACAAATGACATCTGTGGATACTACATGAAAGGTTTTGGATATGAT
TTACCAGTTCTTTCTTACTAAGAGTCTGGTTAAAAACTCATGAATGAATATCACTCACAGAATGACCTCGATTCACGTC
TGGTCTGATTTTTTTTTGTGTGTGCATGTTGACTTCTCATGTGAGCTTTGTTCCTGCAGACCCCACACTTAGTCTTATA
TGGTCTTCGTCCTACTCTGCCTTGTTCTGGGGTGTGGCTTTCATATGTTGGGGTCTTATGAATAGAAGCAGACAAGCCT

Fig. 6.55

CAATCTCATTAAACACAAGGTTTTTGTTGGTTTTTCTAAAGGCAAGGTAAGGAAGTCCCTATGACATGGACCATGGTGC
GCATGCTCCTCGTGGCTTGTCCCTGGGCCTGGCTCATGAGGTTTCACTCCCACTCAACCCC TCTGCATCCCGCCTCT
CTCTGCCTTGGTGCTCTGGTCAGTTGACTCACTGTTCTGTCCTGTGCACTCTGTTCCTAGCTGTGGGAGTTATTGGGTA
TTGAAGAGGCTTAATGCCTGCCTCATCTTTCTGTGGGTTCTGAACCCATGGGGAAATAAAGACGTGGAAGTCAGAAGAG
GATCAAAATGTCCTCTCTGCTAATGGTACCCCTTGTTCTGGTGGCGGTTTCCCTGGGCTGCCCACCATTCCCCTCTGTG
CTGAACTCACCTCTTCAGTCACAAACAAAGCAGCAGCACCTGCCCTGGTGGCTTCAAACAAGGAGGACAGAAAAACATC
TGTGCTGTCAGGCTGGTGGCCAGAGTGGAGGGAGAGTGGAAAAGGGGAGGAAGACAGGTAAGAAGAGAAAAAAAAAGGC
ATAGAAAGCAGGAGAGGAGAGAGGAAGACAGACAGGGTGAGGGAGAGTGGGGTTCAAACAAGCAGAACACAGAGGAGAG
AAGGAGTGGGACAGCAAGAAACTGAGAGAGGCTGCCAGCACCATGGCTGGGTTATGGGTGTGTAATGAAATATTTGAAA
TATTAGTCCATTCTCACACTGCTATAAAGACATACCTGAGACAGGGTATTTTATTAAGAAAAGAGGTTTAATTGGCTCA
TGGTTCTGCGGGCTGTCCAGGCTTCTGCTTCTGGGGAGGCCTCAGGAAACTTACAATCATAGTGGAAGGCAAGGGGAAG
CAGGCACATCTTCACTTGGATGGAGCAGGAAGAAGAGAGAGAGAAGGGGGAGCTGGTACACACTTTCAACAACCAAGTC
TTCTGAGAAGTCTATCACGAGAACTGCAAGGGGGACATCCCGCCCCCATGATGCAATCACATTCCACCAGGCCCCTCCT
CTAACACTGGGGATTACAATTCAACATGAGATTTGGGTGGGGAAATAGAGCCAAACCGTATCAGAATTTTCTCAAGGAT
CAAATAATTCCCTCTTCTGGCCCTCACGGAAAATGAATGAATGCTAGAGCAAAGGAAAGCACTGCTTTCTCAATACCAA
CAGGTGTTGATGGTAATTCCTGTTTCATGCATTAAAGCAAAATGTGGCCAGAGGGAGAAAAGGGTCCCCCTAACCCCCA
CATCCTGCCAACCTCCCTGCCCCAGAACACAGGTCACGATATTCCCAGTGAAACTTAATATCGTGACTGCCAGAATGTT
ACTATTCAGCCATTTCATGCACAGTGCCCTAGGGGTTGCAATGGCATTCCTAGACAACTGCAATGCCTTTCTAACATTG
TTGCTGAGGAATGTGAAGCCACATCGTTGTTACCTGTAAACTGCAGAACACAAGCCTTCTGTCTGCAGGAGGAGGGTAC
GACTTTTCCTATTTTAAATAAAGAAAACTTATCGTTGTTATTTTATAAAATGGGTAAGTTTATGAGCATAATGGAGATC
TGTTCTTTGAAATATTTGCAGCTTGGACAAAACCAGGGAATTGTAGAGCATCAAAAACATTTCAATGAATCACAATAAA
TCTCCTTCTCCATAATGCTTCTTTCATATTCACTGTCTATAAGATCTGAAAAAGAACGCTCAGTAATGACGTACAGAAT
GTGCTTTCTCTGGAGAGGGCAGGGCAGAACAGGACAGGTCAGGGCTGGACAGGACAGGCAGCTATTTCAGTCCAAGGGG
AAGCAGGGGATCATGTTAGAGTCTGGGGACTTAGCCCTGGTGATTCCTCCAAAAGAGTCATAGGAGCACTTGAGCTGTG
TCCTTCTGATGGGCTCAGAAAAAATTAATTTAGTATTCAGTGCTTATTCTTCAGATTCAAATAGTACAGAAGACTATAA
TGACAAGCATACTGAGCCAGGGCATCAGGACTCCCACTGGAAGGCCCAGAGTAGCCAGGTCCCAGCAGGAGGGAGAAAC
ATGAAATTGAACTGTGAGATAGGACAGGAGAAATTTCAGATTAGTATGACTGGGCAGCTTGTGGAAACTCATATTCTAT
TAAGGAGTAGGAAAGATGACCTAGTTTGGGCTATTAGGATGAAAAAAAAGAAAAGAAAATGTTTTTTCAAAGTTTCCAT
TTGGTGTATAATTTTTTTTTTTTTTTGATATGGAGTTTCGCTCTTGTTGTCCACGCTGGAGTGCAATGGCGTGATCTCA
GCTCACTGCAACCTCCACCTCCTCCTGGGTTCAAGTGATTCTCCTGCCTCAGTCTCCTGAGTAGCTGGGATTACAGGCA
TGCACCACCATGCCTGGCTAATTTTGTATTTTTAGTAGAGATGGGGTTTCTACATGTTGGTCAGGCTGGTCTCGAACTC
CTGACTCCAGGTGATCTGCCCACCTCGCCCTCCCAAAGTGCTGAGATTACAGGCATGAGCCACCATGCCTGGCCGTTGT
AGAAATTTTATTGACAAAAAATTCTTCTTGTAAATTGCTTTTTATCTCCCAACAACAACAAAAAAAAAATTGGTTCTCCA
AAGAGACTGTGTATCCACCCACCCGGAAGGCATGTTCACCAGGACAGAGTGATCTCAAAGATTAGGATGAGTGGTTGGA
GCTTGGATTTAATTTTCTCCTCTCTTGGTCTGGTGTGACACTCACTTATTTCCCTTTTTCAAAAGTTCTAGAATCTGTT
TCATTTAAGAGATTAAAAAACAAGTAACTGATAAAAAAATTCAGATATTCATGCCCTTTTAATCTCTTGACTTGCCAGG
TAAATCTCCTGGTTGAATTTCATGTGCATGTTTATTTCATTTGCATGAAGTTTAAATTCTCCCAGGGCTGTACNGCTGC
AACTATTTTTGCAGATTCTTCACTGCACAAGTTGGCTGGGCTGCAGGGGGTGAGTAAGTGCAGAACGGCAGCCACACTT
GGCTTGGCCAAGCCATGCAGTGTGATGTGAGTCTGTGCCAGCCCAGAGGGAGGGATATCTTTTTCTCTTTCACACAAAG
GGCTAGTAAGTGGCCTTGATTGCCACTAAGGTTCATTGACATCATGGCTACCCTGAGATGTGCCTGGTACAGTGCTTCA
TGCACATTGTTATCTGGTAAATGCTTTTGATGATGGTCCTACATATATTTCAATTCAGTGGGAACATTATATGTGTTTT
ACTTAGGGAGAACTTCACCCCAAGTGCCTTATGCTTGAAACAATAGTGGTGTTTTAGCCTTTGAAGACACTTGGTGTAT
GATCTGACTTTCTTCTTCTCTTGATCTTTGGGGCAGTTATACTTGAGGGTAAATAGGCCTCAAATTGCTTGGTGTCCTA
CAAATAAACATAAAGAGCTTAGCTTAGATATAAAAACCCTGAGAAATGGGGAAAAAAAGCATGCTATCTGCACAAACAA
GGGGAAAGGCAGTAGGCAGGAACAGGATGGAAGTCCATGGAAGATGCTGTGATTCCTTTCCTGCTCAGCTCCTCAAGTC
CTGGTTCTTGTTTTGTTGAAGAACAAGCAGAAATAGTGGGATTTGGGATTTAGAGTTCTGGAAATGGCCAGATTTTTTT
TTTTTTTTTTTGAGACAGAGTCTTACTCTGTCACCCAGGCTGGAGCATAGGGGCATGATCTTGGCTCACTGCAACCTC
TGCCTCCTGGGTTAAAGCAATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGATTATAGGCATGTGCCATCATGCACGAA
TAATTTTTGTATTTTTAGTAGAGATGGGGTTTCACCATGTTGGCCAGGCTGGTCTCTAACTCCTGAACTCAGGTAACCC
ACCCGCCTCAGCCTCCCAAAATGCTGAGATTACGGGGGTGAGCCACCACGCCTGGCCGAAATGGCCAGATTCTTAGATG
GCCTGAACTATGTAAGTCTGTTGTTTGATTTGGTTAATCTGAGGAATACAAAGTTCAAGAAATGTTGTAATCTCAGCGC
CCTTGGTACAAGAGTGCCTGCTCTAAGCCTTTGCTGTTCAGGGAAACTTGATAATTTAGGTGTGATATATTTATCTATC
TATTGATTCATCCATCCATCTATTTATCTGTGCTATTTCTTTAGTACCAAAAAAGGCTTGCTTGCACAGGTTGGGCAGG
TGTTGTAAATGAATGATGCAGAGAGAGAGATTTAAAAAACCGTAAGGAGTGGTAGGGACTTGACAAATAGAGTATTTCCCT
ATTTATAGGGAGTGGCCACTGTCAATCTTGGGATTCTTGTCTTGCAGAAAGGCAAACATGCAGCTTTAGGGGGGTCCAT
ATCTTCTGACATTTCAAAAGGAGCTGGAAATCAAGATGTGAAATCAGATTATTTAATATTGACAATTAATTCAAATGTT
TGTGCTAACATTGCAAGACTTCTCCTCATGTTGTTGCATGCCAAGATGGAGAAAATATGTTGGGCACGTTAGGTATTTA
TGTGTCAGTTTGTGACCTCTGCTCTGGTATATAAGTTTGCCCTTAGAAATATGTTCCTGTATTATTTTAAAGTTGAGTG
GGAAGCTTCTCTACTTTTAATGAGTTTTAAAGGAGAGATGTCATCTACTTATCCCTCTATCATTTGGAGGATAGGCTAG
TTATGTCACTTGGATTATACAAATAAACATTGTTGTGGGTTATTTAAAAAAAATTTATTTTCTGAAGCGAGTCTATCAA

Fig. 6.156

GGTTTTTAAAATGTGGTTCTTCATGGACTTCCAAGGAGGTTTAGGATTGGCAGTGAAAAGAAAGAGAAGAATGGGAAGG
ACACTTACATTTCTGCTTCTTGGGATAGAGGTAATCTGTATATTTTGGTTTTAAAAACAGATATTTAATCTTTTAGGCA
CATTAATCTACATTTCTAAGAAGAAATAGGAAACTTCTTGATAGAAATGCCACCTGTTTTAACGACTAAGCACCAATGG
CACTCTGCCAAGTTGAAAACAAATCTAGGTAAATTTAAATTGGGCTGGCATTTCACAGAACTGGTGCAAGCATGGTTCA
TAAAGTTTATTTTTTTGCTTGAGAAAAAAATGACATTTTACTGATTCTGTGTAAGAAAACCTTTAAGTTTTTATCAAAG
ACTATTAAGATCAGAATTCAATATTTTATGATAGTATTTAATATTTTACAATGTATTAATTTACAATTAAATAAGTTAT
TTAATACAAATAACTTAATATTTTACAATAGAGTTGATTATTTTTCTAATGCTTTCCTAAAGAAATTCTGTAAAGATCC
ACATAATTGCTAGACCAGTGATAAAGCATGTAATTTCCCCTATCTTCAATTTTTCCTTACTGTCTACCCTCTAAAGTAG
TTGACAATGATCTTCTGATAGATCCTGGCTTGGGTAATACATTACACTGGCAGAGTAAGAATTCAGAAAATAGCTCAAC
AGGATCCCTCAGTTTGGCTGGTCTTTCTGAAAAGACAAGTGTGAGCAGCCTGAGGAGAACCTGGAACTCAGGTATTCTC
TGTTTCAAACTCAGGAAGGCCTGGGTGAATTCCTGGTAGAGCTGGTAGAACTAGCTTTCTATTATGAATATTGAGAAGT
TTGACCAATTTTATCAGGCTTCTGGAGTGATATTTGCATAGTTACAACTTAATATCACTTTTCTACTTAACACTCACCA
GTAACTTCCACCTACTTGGGCCAGCCCATGTAGTTCAAGGTAAAGATCTTGGATTTTATTCCACATAAGGTAAAGATCT
TGAGCTACAAGATCTTGAACTACTGAAGCTCTTGAATTACACGGGCTGGCCTCTGCCTTTCTCTCCAACATCATCTCCA
GTGACACTGGCCTTCTTTCTCTTCTTCAAATAGACTAAGCTCTTTCTCACTTCAAGCTCTTTGTTGAACCTGCTAGTCC
CTGTTTCTATATGGCTCTTTCTCCAGATCATTGGCTTCTTTTCATTTGGGTCTCAAGTCAAATATGACCTTCTTAGAGA
GGTCTCCTCTGGTGATGCCACTTCTCCTATCACAGTATCCCATCACTCTGTTTTATTTTCTTCATAGCCCTTATTTGAA
CTTATCTTACTTATTATTTGCCTCTCATTAAAATGTAAGCCTTGTGAAAGCAGTACCTTCTCTGTTGTACTTTATTGCT
ATATTTTCAGAATCAAGGACAGTATCTGGCATGAAGTGAGTGCTCAAAAGTATTTGTTAGATGGACGAATTACAATTTG
CCCACATTCAGTGGCTTTACTTGTAATCTGTTTGACTCTTGATTGGTATGTAATTTTATTATATGGAAGGGATGGAAAG
AATAGGGTTCGAGGGTAGTGAGGAAATAGTAAAAGATGGTACTGTTGGAATTAGCTACATGATTTGAGCAGCAAATTCC
AAGTACGGCCTTAAAACAGAAAAAGAAGCAAATATATACTACTTGAAAGTCAGACTGTATGATAATCTAATGGTAGATA
TAGTTATATAAATCATACACACTCAAAGCTTTACCTCTATAATTCTGATAAGAATGGGAAGGCTGATGACATTTTTGCA
GACCATTAAATAAATGTAGTGAACTTCTAGTTTGCTTTGAGCCTATCTGCATGGCTGATAAATGCTTTTCCAATAGAAA
GAAGGGAAAACATGCATTCAAGGTGATAAGCAACCGGTGATAAGCACAGCTAGAGACAGTTTTTAAACCCTGAAACTCT
GTGGTTACTCATATAATTGTTTATAAGTGGCTCATTGGGAACCAAGGTAAACAGAATTAATCTTTTAAACATCAAACAG
AAATAAAATAATATTTCTTTTTTTTTTTTTTTTCTTGAGATGGAGTCTTGTTCTTCACCCAGGGGGCTGGAGTGCAGTGG
CATGATCTCAGCTCACTGCAACTTTCACTTCCCAGGTTCAAGCGATTCTTCTGCCTCAGCCTCCTGAGTAGCTGGGACT
ACAAATGCCTGCCGCCATACCTGGCTAATTTTTGTATTTTTAGTAGAGATGGAGTTTTGCCATGTTGGCCCAGGCTGGT
CTCAAACTCCTGACCTTAGGTGATCCACCCACCTCAGTCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACTGTGCCT
AGCCAGAAATAAAATAATATTTCTTATCTGTACCCTAAGACATGTTGGACAGGAGATGTCCCATGAAGCTGATGAAATT
TTAACTAATGCAGTAAATAATCCATTGAGATTTAATCCTCATCAATCATCATCCTTATTGTTACCATGTGGCAGAAAAA
TGTGAAATTCTGTTAAATGCTTCATCTTGATGGAAAAATATGAAATCCTTGTAAATAAAGCTTGAAATTCTCAGGTTCC
CAAAAGATGACTCATCTGACCTTCTACTCATCTTTTTAAGACATGAAACAAAAGAAAGCAAATGGGTTTCTGTGGCCAA
AAGAATTTCATCAACACCAGTCCATGGGAACAGATCAGACATAGGGAAGAGGTGGGTCTCATGACACTTTTTGGTTTATTT
CACATCTCTTGAGCAGAGCTCTCAGTATAATCTCCTCAACAAGAATGTGTATTGCATTTCTGTAGGACATAAATTGCCT
TCTCTCCTCACTATTCCCAGCACTGATTACAAGCTTCAGCAGAAAGCAGAGTTTTAAATTCTTGTGGAATTAATAAATA
GATAAGAGTAAAGGTATTTAGGGGGAGACAAGGACATAGCCTGTAATTTAGGTGAGCAAAATCAGTAACTGTGAGTCTG
GGCTGTGACATGGTCCTGGCTCACTATTATTTTTTTACAAGTTTTAGGATCTTGGCGTTTTATTTGCTTTATCAATTAC
TGTGGACTAAGATGTGCGACTGTGATGTGGATTAAACAACAATTTATTTCTTGCTCATGCTGTCTGTCCATTGTGG
GTCAGCTGAGTGCTCTGTTCATTCTTGTCACTCAGGCATGGGTTGATGGAGCATCCACCATCTCAAACGTTGTTAATTA
CCATGCTTGGGAAGAAAGGAAACTCTAAAGGATGTTACCCCAGGTGGTTAAATAAGCTCATGTAGAAATGGAATGTGAC
ACTTCAACTCAAAACTCATTGAACAGAACTCAGTGTGCCTGGCCCCACCAAAACCATCCACAAGGGAGGGCAGAAAGTC
TAATTGTGAACAGAACTAATGATATTTACTTAGTATTTGTCTGCTTGATTTTTGGCACAGACTGATTTATTAGAGTGGA
GAAGGTAAGCTGATTATCAAAGAATGTCTTATTTTCCTCATGTAGTTACCATTGATTTATTGAATCATGATTTCATTCT
TTAATATATTTTGCATCAATGATTGATTAATTTTCACAGCTACATCAAGTAACTAATTATTGATTTACTAATCAATTAT
TAAATTCTACAAATTAAATAATATTACAAACTAAATTCAATCCTTGAATGTATCCAACATTTATTGGGAACCAGTCCAT
GGGAACAGATCAGACATAGGGAAGGTGGGTCTCATGTGCTTGATCATCTACTATGTGCTTGATCACTATGCTAGATACT
ACATTGTATGGCTTTGCTGAATTATTGTTAAGTCTTCACTCACTTAGCTGAGCTCAGAAATGAATACATCTCAATGCAT
GCAGAGAAGGTTCTTATTGAGGCTTACTCACTTTGTAGGGTGTTGGTGGCGTTTGAGATTGTGTTTTCAAAGTGCTTAG
CACTGGCGATAGTGATGTTCATAATGATGTTGCAAGTTGACTAGGATTTGATAGTTCATTTCCTAAAATAATTTTTATT
CAACTAATAATTCAAGTAAACACTGCTCACTTGATGATTAGTCGTGGAGTGAAGACTGCGTTGTGAAGCTCACCATTCA
TTCTCTAACAGTGGTCTCCTGAGTTGGGACACTTACATAGGATTTATTTCTGATGATAACAAGAGCACAGATGCCAACC
ATGCATGTGATAGTTTCTGGGAGAAGACTTGATGATTCAGCACTGTCCCTATAAAATGACAAAAGAAGACCCACATATA
GCATTAGGTATGGATGAAGGTACTTAAATTTAAGCTTAATTAGGTGTAAATCCTTAACTCCTATATTCTACTCTCTGGT
GCTTTGAAGTTGGCCTCTTCGGTCTCCAGCCACAGAAGGGATTTTCTTCGCTGACCACAGTTCCCCACGTTTTCCCTTC
AGTAAATAGCAGATGTGTGTGGTGGTAAGCTGGTTTTCTGCCATTGCTGTGTGAAAAGGCAGATATTCTGAATGAGGAT
TGTAAGTTATTTTTGTGTGTTACACATTCTTCTTTAGCTTTTTTCAAAAGCAATTGCATTTTAGTTGAATGTGAAAATTTA
CTCTTGATGATTTTCTCAGATTAATGCTGTCATCATGTTAATGGGGTAATGCTTCCTTCTGCAAAGATCTTGGAATTTA
GGGCTTCTGGTCAGTGTTTTACAGCTTTGTCTGAGAAAGAATGTAATATGAGTATGTTTTTGGTACATGACTTCAAAAA

Fig. 6.57

GCCAAGTCTGCTTTGCCTGATTTTTGTGTGAGCAATCCCACCTGTCTGATCTCACCCCTGCTCCCAGGTCACAGATAGA
GGAGACCTTGTGCCCTAGCAACAAATCACATCCACTTTAGCTCTATGGGACATTTCAACAACAAGGTTCTTGTTGNGG
CTTACCCACTTTGTAGGGTATTGGCGGTGTTCGAGATTGTGTTTCAAAGTGCTTAGCACTGGCACAGTGCTGCAACTT
GCAGCATAATTATGAAATACCTTAACAAAAGGTATTTACAAAAGCATGAGAGGATGAATGTGAGGAAGGAGCATGTCAT
GTTGGGTAAGAAAATATGGCACTAGAAACATGGGAGAAGGNGTGTGTTTTGTGGGGGTAGATGGATAAGAAAGAGAACA
GNTGGATCAGACACCAATTTACCAAATGATTCCATAATATTAGTGCACAGATAATGCACAGATAGTGTGCAACAACAGC
TTTGGGAAAGGCAAACTGACTGTCTATAAAGGTCAGAAGACATTTTATAAGATGTGTTTTACTGAAAGTGTTGTCCTTG
TGAAGAGGTTTTGAGCAAATATTTTAAGAAGTCTTTAGGGAACAAGCAATTTTCCTTTTTGTTGCCCTTTCTAAGAATA
AGACATAAATAGGAAGTTCCATCCTTTTATTTGTTCTATTCAAATATTTATAGGGGAAAATCGGCTACTACTTCTTTAT
AAGACCCACCTTTGAAACTCATTATTTTTCCAAGGTGCCTTGTTCTTATAACAATATTTTCTTCTATGTTTGTTTATTT
ATTTATTTTATTGAGATGGGGTCTCACTCTGACACCTAGGCTGGAGTGCAGTGGTGCGATCCCAGCTCACTGTAGCCTC
TACCTCCGGGGCTCAAGTGATCCTCCCACCTCAGCTTCCTGAGTAGCTGGGATCACAGGCTTGTGCCACCATGCCCGGC
CAATTTTTTGTGTTTTTGGTGGAGATGGGGTTTTGTCATGTTGCCCAGGCTGGTCTCGAACTCCTGAACTCTAGCAATC
AGCCCTCCTTGGCCTCTCAAAGTGCTGGGANTACAGGCGTGAGCCACAGTGCCCTGCCTATAACAATATAACAATATTC
TGTTTAGGCTATGGAAGACCACATATATTCTTACTTAAGCACTTAGAATGGAAGCCACCTGAAGACAGAGGTTATATCT
TCACCCTTGTCACCCACACATAATAAGTGCCCAATTGATGTCTTTTGATTAATTAAATGAATTAATTAGTGAATGAAGA
CAGACCTAGGACTCCTGATAGAAAAAGAATAAAAACTTGCTTCTGTTTGTCCTTCTACAGTGAAAAGATTTCCTAAATA
TCACATATAATACCAGCACACATATCTTGTTTGCTAGTGATTTGATTTCATTTATGTCTGTTATTTAAATTCAGGGAAA
AACATAGGTAGTTTTTTCTTGTAATATCTCAACACTGAACTTGAATGAAACCTTATTAAATAATGCGCAAAATTAACTA
TTATATTTTGCTGCTAAGGGGCTTTGGCATTTTGCTTTGGTAAATTATGTCGCTGGTCTGGAAGACTCAGGCCCTGGGA
TGACAGGCCTATGTCACAATGGGTGACATGGGTTGGGAAAGATGGCTGGCTGTCCTGTAAAGTGCCTTATGAGTGTGAA
GCCAAAGGCAGTGCTTGGTACCACCCAGGGAATATCTATCAGAATGAGATATTTTATTGGCTTCACATACCATACCATA
ACATGTCTGATACAGTCAGCCAAAACAAGATTATTTATCAATGCCTCTGCCAGCTACCCAAGATGGTTAAGAGAACCAA
AAGCCAAATGCAGTGATCAAAAAGACTGCTGAAGAAGTAAAAGGCAAAAGGATGAAGAAAAACCAGCCAGGAACCCATG
TTTTGCTTCTATCTCATTCCCTGGGAATCAGCAGTGTATGAGCATCTATCTCTATATAATCCGTCTTCTCTGCAGGCAG
AAGGGCTACTCCCTTACTGCACCTGAGTCCTCACATTCTCAACCACATCAGTCACTAGGAAGCGGTCAAGGGAACACCA
CAGTATAGCAGAGTGGTCAAATCTGCAGGCTCTGTTGCCAGACTGCCTGGGTTCCCCTTCCTTTTCTATCACTTATTAC
CTTGATAGTTACTAAACCCTCAGTGCCACAGGGTTTTGATCTATAAAATAGAGAAAGTAATAAAAATGTTATCTCATAG
GGTTGTAGTGAAGATTAAATGAGATACTGTGTACTTACTATGTATTGTATGGCTTTTGTTAATAAAGGCAGGGTCAGGA
CAACTGCATATATGTGGTAAGTGGAGATGTGAAATATGTATAACTGGCCACCTAAGTTCAGTATTTGAGGATGTATGAG
AAACGCTAGTTGAATAAAAACATATTATTATTACTTGTGTTGTTACCATTACTACTGATGTTATTACCAAGCAGATGTT
AAAAATATTTCTATATGCACTATGGATCCTACTTCACTTATGAGGAGAATAATATAACCCAAAGCTTTTAATTCTCATT
GCTTCAGTCTTTCAAATGTTTTTGTTCTCAACTTTACTGAGAGGTAGCAGAAGCCAAAAGATAGAAATCTAGTAAAAAT
TCCAAGTAGAAAGACATAAAAGTTTAGTCTTTGAAATGCAGTTGGTCTGGCATAAAAAATAAAAATCAGGCTCTAGTCC
CAGGATAAGATAATTTTTTAATGAGTTGAAATTGTAGCTAATAGAAAGTTGAATATACAGATAAATGAATTGAAAGAAG
GCATGGCATGGTTTATTCATAACAGATGTTAAAAGAGTAAGAGTGATTTTTTTTTTACAAAGACAACTCAGAAAATAAG
CCAGAGAGTTTAAAAGTGAATTCACTGCACAGCTTGGTTCTGCATTCATAAATACAATGAAGCTCAAAAAATTATTTAG
TAGCAGAGGCTTATGAGAAGAGCTTGGTTCTGTGGAGCAGCAACATGATAAAGTTAGATTTTTGGGGCCTCACCTAACC
TGTGGGACAGCTCTCGGGCCTCTGATTTCAATTATTCCCTGCTTTTTTTTTTTTGGTATTGCTGCAACACATCTGTCTC
CTGGTACCCTCTCCTTGCCCTTTCTGTCTGCTTTCCACTGGGATTGAAATGCTTTTCTTTCCTCCACCTCTGTTTCTAG
TTGCAGTATTTTTCTTTATCAAGCTCATTTTTTCCCTAACCTGTAAAAACATCACCAGTGAATTTATGACATTGGAGCT
AGTAGCTGTGTTGATGGACGTGAGTGTCCAGTTCCATAGCTGCATGCCAGATGAATAGCAGTAATAGAGCTACAGAGGC
CCTGCCAGCACAGCCAGACATGATGCACTAACATGCCAGTTTCCTTGCTTCTGGTGCTTCCAAGCCATGGGGCCCCTGG
TGATATATACCGTTAATCAAACAAGTGTGATGAAAGCTAAATGAAGCAAATTTAGTGTGTGGCATCAATATCAACATCA
TTTATTTACTCACTCATTTTGGTTCACTTGAATATTCAGTACTATTTTTCCAATAGTAAATGATGAGAAAATAACTTTT
TAAAGTGGGGGGAAAAGAAGGAAAACTAGTAAATTTCTCAAAAGAAATAAATTAGAAGAAGGTTGAAGCCATGTCAAAT
GGCTTCAATTCAGACATTTTTAATCATAGGTAGATATTGGTGTAGCCAGAGAAAAACACAGTATTCATAAAAATTATCA
TTCAGATGTGAATATGCTGATAGTAATATTACTATCTGGATTTCTCCAGATTCATAAATTATATAAAAATAACAACTGC
AGCCCAAGGCAGTCTATTTAAATGCGTGAGGAGTAAGGCAAATGGTATTCGGAGAAAAGCATTGACAACTTGGTTAGGT
AAAATGCTACATTTTCATCTTGATAATAAAATGTTCAAGGTAATTATTGGGGCTGTTCAATAAGCAGAGCCAGTGAGAA
CATAATAATCACTCTGTTTTGTCAGTGAGAACACTGTTAATATTAATGGGAATGTAATGCTGAAGTTCCTGGGGATTGA
TAAAAGGGCAGCTCTAGATNTGTGAGACTGACACGCGGCTCTGGGGGTTCCTGACCAGTTAATTATGGACCCCCTGCAG
TTTTTTTCACTCTCTTGGGAGCATTCCCAGGACCCCTCCTGAGGCATTTCTTACTAAATGTGAGAGAGAACTTATTTTC
AAATTCCTCTGAATTGAGAACCAGACTAGATGTAGGGATAAAGTGAAGTACAGTTGATCTTTGANCAGCACAAGTCTGG
AATGTGTGGGTCTGCTTATACTTGGATTTTCTTCTGGCTCTGCTACCCCTGAGACAGTAAGACCAACCCCTTCTCTTCT
TCTTCCTCCTGAGCCTACTCAATGCAAAGATGATGAGGATGAAGACCTTTTGAATGATATGGTTCCACTTAATATATAG
TAAATATATTTTCTTTTCCTTATGATTTTCTTAATAACATTTTCTTTCCTCTAGCTTACTTTATTGTAAGAATACAGTA
TATAATATATATATAATATACAAAATACGTGTTAATTGGCTGTTTATAGTATTGCTCAACAGTAGCCTATTAGTAGTTA
AGTTTTTTGGGAGTCAAAAGTTATACTCAAATTTTTGACTACACGTGGGTTAATGCCCCCAACCCCCCACCTTGTTCAAG
GGTCAGCTGTAGTAGATTAAAAGGTTTTTCATGTCTGGAAAGATTCTCTATTCCTGGACTGGTTCAAGGAACTTAGAGG

Fig. 6.58

TCAATCTGAATTCCAAGGAGTGAAGGTACTAATGGTTTGATATCCAGGTGTACATGGCCCTCTGCCAGGAGACTGTAGG
GAAAGTAGATTATCATCATCCAACTTGTCCAGTTGTGCAGCCAGATATTCTTGCTGACAATGTGAATATTTACCTATGA
ATACTAGAGTACTAGTCTAATGTGCAACAAGATACATTTGCAAAGTGCAGGGAAAGTATAATAGTCAGGTGACCAAAGG
TCACAGTGACCTTCCTTAGGTTTGGTCTCCTGACTATTACACCTTGACTTGTTTTTACTTTTTACAGGATTTTTACAGT
GCAGTAGTGGCACATAATTTCTTGATCTTGTGTGTTTCTGTTACGGTAAAAATAAAAACAAATATAAACAGTAACAAAG
AAACAGCTTCCAGGAAACTTATTAGTTATTCCTCCTATGTTACATGGCATTTCCATAATTCTCATCTGTATTAAGTTTG
CTGTGGGAATGGCAATCATAGTATATAGCCCTTACCACCAGCACTGCCTTCTCACATGATTTATTGCAAATTGGTTATA
TTGGAGAGTGGATTCTGCCAAATGGGTAGCCTAATTAGTAGTCAAATTGTTGTTTTCTCTAGTGATTTATTATCAAGCG
TATTAATTTCAGTGTCCAACAGAATGAAATAAATGTCTTGGACTATTTTTTCAATGACATTAAAAAATGAAAACTAACC
CAGAGACCAATTACATTGAAAAAAATTTATTTGAGCCAGAAAAACGTCCNAGTACTGGGCAACATCCCAGACTAAAAAT
GGTTCAGAATGCCCCAACCTCCAATTGTGGTGACTTAGATTTATAACCAGAAAACAGGAAATAACATATAGAGATTACC
TTGTTGGTGCAATTCAATGTTTGCCTTATGTGGGCATAATTTGGCAGCTTTCAGCCTGGGAATTGACTGAGGATTTGGC
TGCTATGATTGGCGGAGAAACAGTTGCTTGGTAACAAGGGTATACTCCTAGATTACAGCTTGCTATGTATGGAGACTGC
TTTGAGCCAAACTTTACTACCAAGTAAAGAATCTGCTGTGTGCCAAACTTAACTTTAACACATCTCAGCATTGGTCTGA
AAATCAGTTCACAGTATTTGATAGTGTGCCTTGCCATTTTCTGTTACACACTTTGTTCCCTGTATGAACTTCTGTTTAC
TTTGCACTATTTCTGTATCTGCTACTTTGGAATAAAAGTAGTCAGTATAACTTAAATAATGTTTCTTAAATAGTCAAAT
GAGAGTGATGATTCAAATATACCTCCTTTCCCCCATTTTCTTTCTAAATTATTCACCTCTAAGGTAATTATAACTAAGT
TTCAAGGTTTGATTTGGAACATTTTTCATATTTCTGTCACTTAGTTCATAGATGTTCATATTTCTACTGTATTATCTTA
TCAGTTATTAAGATTCTTGGGAGAGTATATATCTTTTTATAAAGCTTTCCAGAATAGTTACCATGATGTTCATTCTTAT
AAGTAAGCATTCATGCAGTAGCTGCTTAAATATGATCCCGTGAATGGTGGTATAAAAAACATAGTGGATTAGACACTAT
GTGCTCTAGGAGATGGAAATTGAAGACCCTGGCCCAGTGAATTTCTCAGCAAATGTTATTGGCCGCCTGGTCAATATAT
AGTGTTGTATGCATATAAAGTATTTGGCACATACTTATTAATATATTAATATGACACATTAAAAGTAAACTATTCTGTG
ATATATGTTATGGATTATCTCTCAACATCCATTCCAATTTCTTACTAGTGTACCCCTGGCCCTGTGAAAGCTGGAACCA
TCTCTTAGTCTTCCCTGGAGATAAGGTACTGAATCCATGAAAGTGCTAGTCTGTTGGGGGAATTCTGCTCACCAGAACC
CTTGTGAAGCATCCTTTAGTTGACATGAGTTCAGAGGTACTGATTTATGAGATTTAGTAGGTGGAAGGAAAGCAGAGAC
TAACTTCTGCTATTTCATCTACCATGCAGAGGGTTATGGGGATATCTTGTTGCTTTGCTTTCAGCACTGGCACAAGTCC
AGGGCCCATTTGCTAGCAGTGTGGGTGTTAAGAGGCAGGATGTAAGGTATCACCTGTGCTGGTGAGGAACACAGTGAGG
AGTGTATGATTTGGGAGCTGAGAGCAGTAGCAGTGGGGTCAGCAGCTTCCTGATTGGGTGGTCCCAGGATCAAAGTGGT
TAGTGATCCGCTGGCTTCCTTGCTGGTGTTTGCTTTCTAACTGTGGCAAAGCACTGTGGTTATGGAACTGGCAGTGACC
CAAGGTGGCAGGTAGCTTCCTGATCCCAGAAGAGGCAGCAGTTCCTCCAGCAGCCCATTTCTGTGGTGTTGCTTGGGAA
CTATTTCTGAAGGCTCAACTTAGATGTATTCAGCCCTCCCCAGTGATTCTCTAAGCCATTTAATTATATGTCTTAAATG
TTTTTCTTCTTAAAATAGCTACAGTAGATTCTGTTATCTTTAGTTGAGCCATAATCAATATCCCATTGGAACACATGCT
TCCTACATATTGTTTCAATGTCAAGTCATTGAGCATTATGTTATTTCATGGANATTTGTGGGAGTACCACTAGAAATAA
TCACAAATATAATTATAATTGTGTCTTTTTCAAATCCATCACAGAATATTTACACGTACTCCATATTTTCCCTCTAATC
AATGAGTTACACTGGTGATATCCCCAGGCCCATTAATTTTCCTTATAAAATATCCCTTGAACTGTACTTTGAAGCCCAA
CAAAATTGAGTTGTTTGAGCTATAAAAGCAAGAGCAGGCAGAAATGCAGAATCTCCACAGGAAATGTTTTGCCTTCAGG
GTCCTGTCATTCAAACTAGAGATTGAAAATACCAATATTCTAGCTAATGTCTAAGGCTGCTTATTTCTATGGCTGAAGG
CACAGGGCCAATTAGAGGCCAAAGCAGTGGGTCCTATCACCAGGTAAGCCATTTAGTTTTACTCTCTTTTGTGGCCTCA
GCTTTCGCTCTTGGTCTTACCTCATCATACTACCTGCTTTTGAGCAGAGAGAAAGTGTAGAAAAGTGGCAGAAAATACT
TTCTCAAAATTCTTTAGTAATGATGGGTCAGGAGCATCATCTTCTAGAAGGACTGTGCATCCTAGTCAGTCTCCAGAGA
GAAGAGAGAAATGCAAACTGTCCAGTAACTGTGAGCCATGCTAAGCTGAATAGACAGGCAAAAAGGAGGCTCACTACTG
TGCCTTGGGAGGAAATTTGTATTATCAGGGAGAATGGTATGTATTGGTTAAGGTGGAGGTGTGATNGAAACATTTTGAG
TATATAGGAGAATTTAGTTCACAATAGGAGTTTAAAAAGATAAAAAAGGCCAAGTACTGTGGCTCATACCTGTAATCCC
AGCACTTTGGAAGGCCAAAGCGGAGGGTTGACTTGAGGCCAGGAGTTTGAAACCAACCTGGACAACACAGAGAGACCAC
ATGTCTACAGAAAAAAAAAAAAAAAGCCGGGTGTGGTGGTGGCACGCCTGTAGTCCTAGCTACTCAGGAGGCTGAGGTGG
GAGGATCGCTTGACCCCAAGAGTTCAAGGCTGTAGTGAGCTGTGATCATGCCACTGCACTCTAGCCTGGGTGATGGAAT
GAGACCCTGTCTCTAAAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAAATAATTAGGTGGAAGA
AAGATGACCCAGCAAAGTGAGAGACTATTCATTGCTTCATAATTATATTCAGCTATAATAATACTGATTCCTTTCCAAA
TAGTGAATTAAATACAGACATACGTGTTTATTATGTTAAAAGAAGTCTGAAAGTAGGCAGTTTGGGGCTGGCATGGCAA
TTCTGCAAGGTCATCATGGACCCAATTTCCTTCTTGTTCTGTTATCCATTTTCTAAGCACATGGCTCACATTCTCAAGA
TCAACTCATGATCCAAGATAGCTGCTAAAGAACTAGATATCATCTCTGATTTCCAGCCAGCAGAAAAGGGAGAAGTACT
CTCCTTCCCCAGAGGCCCATGCAATATTTCCTCTTACATCTCTTTGGCCAGAATTTTGTCACATGGCCTCACTAAGCTG
CAAGGGAGCCTGTAAATTTAGGCTATTTGGCCAAGCAGAAATATACCTAGCAAAAAAATGGGATTCTGTTATGAAAGGA
GAAGAAGATGAGTGGATATTTAGTGGGCAACTCTAATCTCTGCCATAAAGTAGGTGATCTCTGTCATAAGACTGAGCTA
GACGGGGATTATACTATGCTGTTGTTGACTGTGGCCTTTTGGCTCTGTGCTGAGGCTTTCTTTTCTAGGGCCACAAACG
GAGTTTCTCACATTTACTTCTGGATGATCCAGGAAACTAAACTGGTTTTCAGAGAATACTGCCAAAAATGCCTGAGCAC
ATGCTCAGCTCTGTGAGATCAGCAACGGCACCTGAGACCTTTTTATCTGCTTGTTGTAGTTTTTAATCCACTGAAACAA
TAGCAGGTGTAAGCTGGAATTCTTTGGCACACAGCCTCTGAACCTTGGCTCATGTTCTCAGATAAATGCCTATAGCAGC
TGAAGCTCTTGAAAAAAATTTAAGAGGAGGAAACAGAGTAGGGATCTTTTTGGGGTCACAGTCTAGGTGTTTTTAGAGC
CACTCAAACTCGAATCAAGACCCTTTGATTACCATAAAAAATCTAAAATAAGATGTTTTGTTTGGCCCAAACAGTTTTA

Fig. 6.59

GAAAAAAGTGAGCCAAATCTGAAAATTAGTTTATTTCATATATATTGAATAGTTAGGCCATTTGGCCACACCTGTCCTG
CATCCTGCGTGTTGACAACATCCTGGGACTGAGCAATAGTTGTCATCCTTAGGTGGGGCCTGCATTTGCTGGCCCCCAA
CCATCGACGCATTTCTGATATCTTGTGTTTGGCCTACTTTTCACTCATTGAATGTAACCTGCTGAATACCTGTAAGCAT
CTAGGCTGTGACCCTTTCTGTGGATGGCTCAGGAGGTAACCAGTGCATGAGAAGTTTCTGGCCTACCTCAGTTGCTATC
AGGGTGGGCAGAGTATGTGGAGAACTCCTAGCCTGGAGAGATGAGAAAGGATGTAGGTTAAAGTTGAGGTCCTAGAAGA
AAAGATCTTGACAAGGAAAGCCTGAAGGCTTGTCCAGTATGAGGTTGCCAGGAGTCATCTGTGGGAAGACACGGAAGTG
CACCTAGGAGCAGCTGGTGTCTCAAGACTGACTGATAGGCTCGAACCTGAGCCATGGTTTACAAAGCTGACACCAGGAT
GTAACTATGGGTTGTAGCCAAGTTGTTCCAACACAGGTGGAGTGAACTCCTGTGGTATTTTGAAGTGATAATTGGCTAG
GGTAATATTTTCAGGGTGCTGGTTCTAACAGATGGTGCTATTTGAAATCCTTCCCTATAATCTCCATGAATGACTCTGT
AACCTACTTAGGAGGCTTATTCAAGTGGTTCAAAACCTAGGCCTGTATTCCAACTGGTTGGCAATCTGTTCATTGATGT
TGTTATCTGAATTCATGAAGTGGGCATTACATTGTTTTAAACAAGAAGTATACACAATTGCTTCCCAATCCACTCTCCT
CTCAAAACATGTACTGATACATGCATGTATATTTTTGCCACCCTTAAAAATTCACTTTGTAATTACTTTAATGTTAATG
TAGAAAAGAGACACGAAAACCTCAAAAAGATTTAGGATTTAGGATTTACTTACCTGCTATATAAAAAAAATCAGGGTCT
ATCAGCTCTGTTGGAAAGAATGGCTTGAGAAAACTCTGCTTTCATCATTTGAAACTTTTATTTTGGGATTGTGTTTATA
AATTTCAGAAAGAGTCCTCTTACCTTCTTCCAGCCCAAGTAAGTGATTGGATTGACGTTTGTATTCATGGACTTTGGCT
TGAAATGAAATCTTTTAATTCTGCCTTAGATAGTAAATGCCAACAGTTTAAAGTGGCATGATTCGATCTTTAAATTTGC
CCTACTGATGAATGGTGCAAATAGGAAAAAGGAAAATAAAAAGTATTTGCTACCTTGAGAAATACACTCAGTCTCTATT
TGATTTTCCTTAGATGTGGGGGTCTGTAATTGTAAGATCTGTTTTTATTCATCGTAACTAGGAAAGCCTCAACATTTTA
ATTAACAATAGTAATATAAATTACATTAGTTTTATTTCAGTTAGAATTTTTTTCTTTCATGTATTTAATACGAAAATAT
CCATGCAAGAGTTCCTTCAGCTTAAGTCAGATGTGTTCAGTGGCTGGGGCAGTGCATTAACTATAGTCTGCATGTGAGA
AAAACAGCAATTGGCTTTTCACTAGTATTTGTCATTGCTCTATCCTAATGCATTCAACATTTTCCTATTGTGCTATGCT
CCACTGTATATCACATTTTACCTATTTGATTCCAAATTTACTTTGTGGTATTAGGTTTTAATTTAGTAATTTACATACA
GCTTGGAAAAGTGATTCCTTGAAGATATTGCTTTGTATCTACATGATAATTGACACTATTTGTATTAATATTAAAAGCA
TTAACCTCTTTTTCCTAGTGGTCCCCAATTTCATTCTTAGCAAAATAAAATTACAGATTCTGTTTTCAAAGAAAATTTG
TATATGGGATTTCTTTCCATTCCTTATCTAATGTTAGGATACTGAAGTTAAAGTATGCATTTTCTGTTTTTATATATTT
TGTCTTTAAAATATATGTTCAGTTATAAAAGTAATATCAATTCCTTAAATAATTTTTGTAATATACAGGCAAGCCGCAA
AAAAAGAACAAATATTCTAGAGTTCCATGAAAGTCATCATATTAAAAATGAAATTTTAAGCAGTTGGACTTCACATTAT
TTCATAAGAATTTTCAACTCTAATGTATATATAATGATTCTACCAAGTGTGTCATAGTTCACTTAGCTGTTTCAAATAT
TTTTTTCTACTAAGACTAATTAATACTGTGTGGAATACTTTTATATATAGACCATTTCCATACTTGAGTTTTTTTAAA
ATTTGAGTTCTCAGAGGTAGATTTACTGGTTCAAGAGACATTTTTTAAACTTAATATTAGTTTGCAGGGAGCAATCCAT
AAATCCATGTTTCCTAATACTCTGCCTGGATTTTTTTTTCTGTGTTTGGAGCATCAGATGAGAAGTTGTGAGGAGAAAC
AATGGAAAAAGAAGAAGGAATCATAGAATCATTGCTGAGTGTTGCTCCCCAGGTTCTTGTTTGCTAACTGAAAGGAATT
TGCTGGCTGAAGGGAAGACATGTTGAACACTTTTATTCACCCTATATTCACCCTGAATTCTCTCCCCATGGCCAAGGGA
CAGTATCAAGACTTCTGTTGTTTCACTGAGACAAGTCAAATTAAGAAACACTTGAGTGTTTATTGTGTCCTTTGTAGGG
CTTATGGGCATATACCTCAGCAAAGTAGGCGGGCAATAATTTAGGTCATGCCCATTTAATTTCAAAGGCCAGCTTTAAT
CTTTTGGGCTGATTGTGATTACTCCAAAAACGGCAGAAAACAACTGAGAAGGGAATACCAGGTCCAGGTTACAGTTCTA
TGGAGGTTTTGTGTAATCCTGAGTTTTCGCTTTGCAATTTGGCACCATGATAGCTTTTGTATTTTCTTTCCTCTGTTCT
ACTTTTTCCCATCATGGCAGGTGAACTTCTCAGTGTGCAAGGAATTATATGTAGCTGACTCTTCCAGGGTATGAGAGGT
GGGCTGAAGCTATCGGGATAGCAGCTGGCTTCAGTAGTGCTTTTAGCTGTCTAGACTTGTGCTTTCTCATTGATTTTGG
TGTCTGGGCATGTCCTTTACTTTCTAAATCATGTCTGCATTTAAATATTTTAGAATATTTTATCCAGCATTTTTTGTTG
TTTTTCCCCAAAACTAGTATTTTCAATATTTCTGTGAGAGAACAGGGAGTCCTTTCTAGTATATTGCTGGAAATAAAAT
ATGCAACCTATTCTCTACACAACAGTCAGGGTGATCTTTTAAAGTATACTTTAGATCATGTCAGTCCCCTACTTAAGAC
CTTCCACAGCTTTTCATTGCTCTTAGATTAAAAGCAAAACCCTTTATGTTTTCTACAAATGTCTGCATGATCTGGCTCC
TAAGAATCTTCTTTCTTACCCACTCTTTCTCCTGCTCCTTAACTTCCAGCCACACTGGCCCTCTCTGTTTTTTGAACTA
ATGGAGCTCATTCCTGCTTGGGGCCTTTGCACTTGACATTCTTTCTGCCCATGTCCTGGACACACTGGCTCTTATGCAT
CATTCAGTTCACAGCTTAAGTGTCCTCCTCAGAAGGACCTACCCTGTCCACCCTACTGAAAATAGCAAATTTGCTATCA
CCCAATCATTCTAACCCATCACCCTGTTTAATTGTCTGCCTTAAATTGTTTTGTTTGTCTATTTGTTCACATGTTTACA
ATTCAGAATATAAGCTCTGTAGGAGCAGGAAACTCTTCTCTCTAGTTCATCACTTCAAGCCCATTACTAAGAACAATGC
ATTGTTTGTGGAATGAATTAATGATTTAAATAATTAGCCTATATAGTGTCATTTCCAAAGTTGGCAGAATATCATCATT
GGAATTTTGTTCTTAAGGGGAACTGGGTTATAGAAATGTGGGAAGAATACTTAATTAGCATTGAAAAACAATGCTTTAC
TAAGGAATCAAAATCATGAAATGTAAGAGCAAATAGGAGTGTTTATCCCCTTTATTCCAGACTCTATTTTATAGATATA
AAAACCGAGACTCTGGGTTGCTGTGAGTGGCTCAGACCCCACAATTAGTGGCAGAGCTGAGGCCAGGGGATGCACATTC
TGATTCCTGCATCATGGCTGTTGCTTAATATCTCACCATGAGTCATGGCTACTGCCCAGTAGATTGGGCACAACCATGA
ATATTAGACTGGCAATTTGCTAGAGATTTTGCAAAACCATGGGAAATGGATTGAACAAATTTTCCTGTCATTTTTGTAA
GAGGCAGTAAATAATGGTAATTTGAGTATTAGAGAACAGCATCTGAATACTTTTTCTAAAATTCTACAAGGTGAACATA
GAAAATTGTAGCTTTCCTTTCTGCCTATTGCTTTCTGAATGTCAACAGATTGCTTTCTTCAGCTTATGTTAGAATGTCA
CCAGCAGGACCCACATCTGACATGCTCTGGACTGTCAGAGCCACTCAGCACTAGGAGAACTTTCCAGTTGAATTTCTCT
TAAGAAGGTCAGTAGGAATAAGATAAACGAAAAACTTATTCATCATTACCATAATCCTTGTGAAAGTGGAAAAGTTCAT
CCTGGCAAATTCAAAATCGATTACAAACTCATGCATGTTGCATATGTATTTTTAAAGATTTTTACAAACCCAAATAAAA
TAAGTAGAAGAAAACAGTAGTGATAAATTTAAAGTTCTTAACTGAATGAGTAGCTTTGAATTTTACTCAACGGATATAA

Fig. 6:6C

GCTTTGGTTTTTTTATAAAAAAGAAAACAGGTTTGTTAAGAGACTATGAACATATTTTAGAAATGCTTCAGTGATTTT
ATCATTTAAATAGAAATTTGGATTATTCTGGAAAACAGTTTGATAATATGTTTCAGGCATTTGAACATATTTACTCTCC
TGGCCCAGTAATTGCAGTTTTAGAAATTTATCCTATTTTAGGAATCTAGCCTAGAGAAAAATCTGAAATTCAGTCATCT
TGGCATAAGGATGGTTGCAGAAATACTATTAATAATAAAAAGTTGAATAGTACCTAATATTCAAGTAGAGGTATAAATA
ATTTGTGGCAGGTTCATTTGCTATAGTTTTATGCAACTATTTAACAAATATAAGTAAGATTATTTAAATGATGAAGGAA
AACTCTTTCAATATAATGTTAATTTTTTTTTTTTTTTGGAGAGGGAAGAGCTCTTTTATTTAGTAATTCCTGACACAT
TTTAGATGCTCATCAAATAGTTAATTTTCTTTTCATTGCTTCTTACTTTTCTCTCCCTTTATTTATTTATTTATTTATT
TATTATTATACTTTACGTTCTAGGGTACATGTGCACAACATGCAGGTTTGTTACATATGTATACATGTGCCATGTTGGT
GTGCTGCACCCATTAACTCGTCATTTACATTAGGTATATCTCCTAATGTTTTCCCTCTCCCCCTTCCCCCACCCCACGA
CAGGCCCCAGTGTGTGATGTTCCCCTTCCTGTGTCCAAGTGTTCTCATTGTTCAATTCCCACCTATGAGTGAGAATATG
TGGTGTTTGGTTTTTTGTTCTTGCGATAGTTTGCTGAGAATGATGGTTTCCAGCTTCATCCATGTCCCTAGAAAGGACA
TGAACTCACCCTTTTTTATAATATAATGTTAATTTTTTAGAGAGTAAGACCTAAAACTATATATACGTGTATGTAATAC
GTATATAGTATAATCTCAACTACATAAAAAAAGACAAAAAATTAAAAGATTGCAAAAAAAGTCAAAGTATTAATAAATA
TTATCTCTAGGATTTGAATAATTATTGCTATTTTCTCCTTTATACTCTTCGTATTTTCACTTTTTCCACAATATGTCTA
TTATTTTAATAATCAGAAAATCAATATAATTTATTTTAAATCTTGGCAGATGAACATAGTGAATGAACTATGTCAAAAT
GCGGTTGGAATTTTGTTGAACTTCTTTACAGAAGACTATATAGATGAGTGTTTTTCTAAAAAATCTTTGGATAGATAAT
AAGATCAATTAAAATTGAGTAAATTCATCTGTTTGCGTGTGTGTGTTTAAACTATTTATCTCTTGTGTGCTACTTAGCT
CCTGTATTGCTTTCGTAATAAGACTGAGGTAGTTGGTGAAAATTTGAACAATTCTTGCATAAAGATTTTATTGCATAGG
TTATAGGATAAAATGCAAGAGAAATGTTTTGTGGAAAGAGTACTTAGTAGAGAATCAGAAAGGCTTTATGGGTCCTTCA
TTTTGGTCACTGTTATACCTTTGTCTAATAGACCATTGATATAACTTTCTACTCTATAAGAGATTGATACCTAGTTAAG
GAAGGTCATGATATATTCACTTTGTTACAGGAAATTTAAGGTGCCCAGAAAAAAAAAATCAAGAACCAAAACTAACGAA
TAGAGAGCTCTATTGTTATTGACTGAAGTATAAACTTAGATCCCTTAGCAAAGCGAAACTCACAGTCCATACAAAACCC
CTTGCTATGTCCGTTGGAGAAGGATTGGCAGCAAGATAGCAAGTATGTGGAGGATCATTGTTCATGAAGCAGGGGTAGA
TAGGAGCCTTTTCATATACTTCTAACCTTTTTTATTGTCTAACCTATTGTTATGTTGTCTCATTAAGAAGAGGCAATAT
AATGTAGTGGCCAAGAGGTATGACTTAAGAATCACTGGACTCAAAATTTGCCAGTTTATAACTCTGTAATCCTGGACAA
ACTACTCCCAATTTTCTAATTTGGAAAATGTGGATGATAATGGTCCAAAAAAAAAAAAAAAGATGAGTCATCTTAAGTAT
TTGAACCAGAGAGAATTTAATTGGCTATGCAGCTGAGGGAAGAGCTGAAAAGCCAAATGGGGTCATTAAACAACCCGAA
TATTAGCAATAGCAGGAAGCATCCACTAATTCTAATTTGAAGGGACAATATGTTGGAGACAGTGTTACTGGGTCCACAG
ACTGAGGTCACTGGAATTATGGTGTAACTGGAGGAGGCATGGGAGAAAGCTTTTTGATGGTAGAGATTCTGCTCAAGGC
ACNGAGAGAGGAGAGAAATATCTTGGTGTTCCCATCTTTCGACCCTCCAGTCTTGTAGCCAAACACAGCCAGAAGTCAA
CTGACAAGGGACTCTGCATTGCCTCTCTTTAATACAGAGCAGAGAAGGAGAAAGGTGAAGAATGGATGTGTGACAGGCA
ACAATTCCTACCTCAGAGGTATTATGCCTAAAGCATTTAGAACAGTGCCTGGAAGATATGTGCTTAATAGACACTACCA
TTATCATCGTCATCATCATCATCATTGTTATCATCATTGGTGCCATTTGCAGAGTAGCAACATCTCTTTGTGAATGTAC
TTTACAGGTTGGATGCTATGAGATTGTTTCTAATTACAGCCCTTTTCCGGGCCCTGCTGTGGTCAGGTTGCTAGTCATT
TCAGCATTTTTAGTGTTTGGTGAGGCAGGGGTGTTCCACCTTCCATTCTCATCTACCCTGCGTTGATTACATTTAGAGT
CAGCAGACCTAGTTCATTGATGACAAGAACTGAGCCACGCAATGTTCTAAAGAATCCAGGCAGTTTTAGGAGCATGATA
AAAATTCACAACCCTGTGGGAAATGACCCTTGGAAGTTAACTTTAAAATTAATGATTTTAAAATTAGGATTTCCTTACA
TATCCTAGTCCCTTTAGAGTTGAGCTTAGCTTTGTCCTGCAAAACTGAAAGAATACATATTTAATTTTTTTGGTATTTT
CTGTAGCATGGCATTAAAATTAATAAATTTAAAGGAATAGAAGCTTGACAAGATGCCTTAATAGGCCCACCAGGAATAA
TCACATAGTTGCCTATTTTGAAGCATAGACATAAAATTAAAAAATTCCATCCAGATAAGTCACGAGGCTTTGCCAAAGT
GCCCTCTTAAATTGCTCCCCTTTTGAGAATGCACTATTTATTGTAGCATTTTGCTGAGCCCTTGGGAATTTCTCTTCTG
AGAGACTTTTACCAGTATGAAAAATAGCAGCTTTTCTAAGTTTTGGAATATTGTCAGTCTTTTTTTTTTCATTGGTTTT
CCGATTATCCTATTCTCAGAAATAACATTTATTGATCTCAAGGAGTTAAACATTGTCTTGTTTTCTCTGGTTCTGTATT
CTTCACCTTTAAGACCAGATCCCAACTAAGTAATAATAAAAGATAATAATGGCTAAGAGTTTTTGAGCTTTCCTCCACG
TCAGTTATTGTTCCCAGCACTTTGGTTTCATTCTCTCATTTGATGTGATATAGGAACTTGTAACAACCCTATGAGACAG
GTGCTTCACTTTAAAGACTAAGATACTGACGCAGAGGTTATAAACCTCCCCCACGGTCACAAAATCATGCTGCTGGACT
GAGCTCGCACCTTCCACTACTATTAATACATGGTAATGTTGACATCTTATTGTAAATGTTAAACAATAAAGCGTAAAGG
GAAAGAAGTAAATGCAAAAAAATGGTCAAAGCAGGAGATGATTTTAAAGAGCATCTGGTTCAGTCTCCCCTTTTACAGC
TGAGAAAACCAATCTCTAGAAAAAAGAAATGAGCCTTTTGATTATAAAGCAGACTGCCTAACAAGTATCAAGTCATCTC
ACTTATTCTTCTCTGTCTTCCATGATCACAGAGTTCTGACCATGTCCTGTGTCACTCTCAAGCAGAGATTGAAAATGAC
ATTCGTCCTTTACTTGTTCCAAGGAAGCAAACATTTTATAGTTTGAAACTGTTTCTCTTGCATTTGCTTTGCAAGAGGT
TTGCAGAAGTTAAGCCTCATGGAGTCTTCTCTCCTTAACTTAAGTGAGTGGATTGCTTATTGCTCTTCTTTGCCTGTAA
ATTCATGTTGATTAGACAGTGGTGGGGTGGAGGGCTGATGGGTCTGTGTTTGGTTGGCAAGCTAACTCCAGCATCCTAT
AATTACTACATTTTCAATCTGGTGCATAGTTCTGAGTTTTGTACATCCTTATGTGGCTCTACACTCTTTGAGGTTAATT
TTGGCCTTGGATGGTGCCCTTTTAAAGGCAGGGTAATAGCAACACAGTGTTTTTGCTTGGGAAACGCTCTGTGTATGGG
CTTCTTCTCTTGGTTTTAAGTATTAACAAGGTAGTAAGTATGAAAGGTGCTGTGTTTGGAGTCTTTAAATGGACTTGGC
ATTTGGCTTGTCTACAATCTTTCAGGAATTTTAATCCTGATATTCAGATTTGAGTCACACACCTGGGGAGTGGTGACCA
TAGCTCTTCCTTACCCCTCCAGCTCCACTTCTGGGTTAGCATGAACTGACCACTGTAACCTGCTCTCAGGCTCTACACA
AAGGTGCTTCAGAATCTGCCTGTGGCCACTTCTGTGAAAGGGCATGGTCACAGTCACCGTGGCATGGATAGAAAACTGG
AGAGCAGCAGGAGGAGCCCAGGGATAGAGAGAGGAGGCCTGGATGCCTGCCTGGGCTCTGTGCCATGCCTTGGGTAGGC

Fig. 6.61

CACTTGACTACTTTAAACCAAGTTGACTCTCCTGTAATGCAATAGGGGTTTAATGATCTCTGTGGCTCTAGAGTTTTGT
AGTTTCTACTGTTCTTTGAAGCATGAACATTAATTCAACAGAAGAAAAAAAAACCAAACATTTTTCATTCAGAACAGTT
TCAAGATATTGCTCTGACTCACTGGATGGCAAATCATAGTGAAAGGGAAGTCTGACTCGACTTCCATTTTGCATTACTT
TTGGCCAGCATGGCTCTTTATGGTGTACTTGTTGTATAATAAAACAGCTNTCTAGAGAATACTCTTACATTTACTTACT
GAGAGATAACAGAAGTTCCGAATAAAAACTCATAGAAATGGAAGACTNGGAAATTATTTTTTTCTTTTTTCTATTACAT
ACAGAGGAACAAAGGCTGATATTTGTGTTTATGCCCCTTTCTGAGGACAATGTCCTTGAAAATCCATATTATTATTATT
TGTCTTTATATGTAATTGGATTGTTTAAACTCTTCTCTGAACTTTGTAGCTTTTTCATTATATCTCTTTTGCTGGAATA
TTAATAAAACTCCACTTAAATAGCCACTTTATTCTGTAAATTTTATTTAAGGCCTGAACTTGGCCGCAAATGAGAGTAC
TTGTGGTTTTTTTTTTTTTTTTTTTAAATGATGTGACTGCTTTGTGAAGGGACATAATGAGTCTGTGTTCTCTTCTATT
CCTCTTCAACAACTTTGTCAGGAAAGAAGGCTATTATGATTTCTTGGAGATGTGGAGGATTGTGGCATCACCATGTCC
TAGTCATGGATGAAAGNAGAAACTATTATACCAGGGTAACATCTGAGGCCTGAGATAAAATTCCCATTACAATCTCTTT
AAATATTTCTGTGTTTAAATGGGATGAGAAGACTATCCACTCCACAAANGTAATCCCTTTTCTTCCTCAGCCTAGTGAA
ACTTATTGTTTCTTTTCCCTAGATAAAAAAAAAAAAAATAGGATGCTGTACAGNTTCTTTTGGCTTGTTAAAAGACAGA
TAATTCACAGATTTTGCTTTTCTGTAGCTTATGCAATGTCTGAAAAGGCGCTGTAAGCAGGGATTCCCTGAACATNGCG
CCGTGGGCCCGGATCCCTGTTTTGCTTTCTTCAGAGAGCTCACTGGCAGCCTCCCTGATGCTTTGTGCCAGTTTTTAGG
CGCTCCAAAGCCACATGCACATTGACATAATCTCCGGTGGTTTTGGCTGGTTTATAATCTGGCTTATTGAGGTTTGGTT
CAAGGCAGAGGCCTTTAGGGCAGGGATCTTCTGTGAGCTGAAATAAAAGGGTCTGGTTTGGAGGAGATTTGACTCTGCC
AAATAAAAGCGGCACATTTCCAACTGCACATGCTGAGTTGCCTCGGAACACATCCATGCAGAACACAGACATGCATTAG
GCAGCTAGTTTGTGGAAGGCAGTGTGCTGAGCACAAGGGGGAATAGAAAGACACATGGCTGCCGTGAAATAACTGCTTC
CAGAAAGCACATGTCGAGTTGGAAGGATGAGCCAGAAGACACACAGAGAATATTACTCAGCCTAAAATGTGACGTCCCG
AAAGCGTGCTAGTATGAGACCCACAGAGTTGGAGAAGAGATTTTCTTTCCAGTGGGGAAAATCCAGGTTAGAAAGACCA
GACAGGCCATATTACCGGAGGCACCCTTTATTTCAAGTTTGGCTTTTTGTGGTTTCGGTTACCTGCAGTCAACCGTGTC
CNAAAATATTGAGTGGAACATTTAAGAGATACACAATTCGTAAGTTTTAATTTGCATTCTGTTCTGAGTAGTGTGATGA
AATTTCATGCCATCCTGCCTGGGGTGTGTAGCATCCCTTTGTCCAGCATGTCCATGCTGTCCATGTGACTCGCCTGGAG
GTCCCTTAGTAGCCGTCTCATTAGCAGATCCACCTTCGAGGTATGGAAGTGCTTGTGTTCAAGGAACTCTTAGTTTACT
TAATAATGGCCCAAAGTGCAGGAGTGGGGATGCTGGCAATTTGAATATCCCTAAAGTGCTTCCTTTAAGCTAAAAGGTG
AAAGTTTGAACCTAATAAGGAAAAAAACAAAAATTATATGCTGAGGTTGCCAAGGTTTATGCTAAAAATGAATCTTCTA
TCCATGAAGATGTGAAGAGGGAAAAAGAAATTCATGCCAGTTTTGCTGTTGCACCTTGATCTGCAAAGGTTATGGCCAC
AGTGTGCAATAAGTGCTTAGCTAAGATAAAAAAGGCATTGAATTTGTGGGCGGAAGACATAAACAGAAATGTGTTCTGA
TTGACCGCAATTAGGTTTGGTACTATCAGTGCAGTTTCAGGCCTACACTGGGGGTCCTGGAACATATGCCCTGCAGATA
ATGGGGGACTGTCGTATAGAGCCCCTGGATACTAATGGTGCTAGGGATTCAGGCCCCTCTCCTATTTTGGGAAGGGGCA
ACCTCAGCATATAATTTTTGTTCTTTCCTTATTAGGTTCAAACTTTCACCTTTTAGCTTAAAGGAAGCACTTTAGGGAT
ATTCAAATTGCCAGCATCCCCACTCCTGCACTTTGGGCCATTATTAAGTAAACTAAGAGTTCCTTGAACACAAGCACTT
CCATACCTCGAAGGTGGATCTGCCAAAGAGACGGCTACTAAGGGACCTCCGGGCGAGTCACATGGACATGTCGTGTGTA
TGGAACCTTGGAAAGAGGCTGTCCTTACCTCCCTGTGCATTCTGGCAGCCCCTGGCACTGCTCATAGATAGCCATGTGA
CTCAGGCTGGGACTCTGACTCTAGAGCGAATGGGTTAAAGGTCAAGAGGCTGTTAGAACTTATTGTTGGTGTCAGTGGT
GGCGCCCATTGGCTTTCAGTGGCGGCGGCAGCAGCAGTGTCCTGGCTGTAATTCTTGCTACAGGATAGTGGTCGTGATT
CTTGCTCCTTGGCATCTTGCGCGCCTGGGTTTTTGCTCATTTTCTGTCCTTAGTGATGAAGACTTCTACTGAGTCTGAA
CCTGCATGTCCTTCCAATGGAGTCTACTTTTTTCTCCTCCAGCTAGCCAAGGCCGGTTTCTGTTATGGCAAGCAAGAAT
TCCCACAGCACCTGAGTGTCAACGGCTTTCATCGTTTGTGCTGACCCACCTGTGCAGCTGATCGTCTGCCTTTTTTCTC
CGGCTACTCACCTTCCTTTATCTACCTATATAACTCCCTGCTTTGAAGGCTGAACTCCAGCATTTTTAACTTTTCCTGA
GTTATTGAAGAGACTTTACTGTTTACTATTCCTCTGTACAGTACAACATCTTATAATTGCCCATTATACAGATTTTTTT
TACATTGTATGTCTTTTTTTTTATTATTATTTGTTTCTGTTTGCCTACTAGCCCATGAGGAATGTTTTTTGGTAGGAAC
TCTATTTTCATCTTTATAGTTCCAGATCCAGCTAAGATTACACTCTGGTTGCGTGACTGAACAAATCTGTTTGCAGGGA
GAGATGTGGTGTTGGAATTGTGAACCTATGGAGAATGAAAAAAATAGAATAGCTGTTGTGAGGCATTTACTCTGGTGAT
ACTAAGGGAGGAATAAAATGGTGTCTGAAATGTGTGAGGGCCGTCTGATACCGAGTAGTGTACATTTATTTTCCACTTA
AAAAAGTCTGGTTTATTTAGGTATTATTTATTTACAGTAAAATCCATCCCTTTTATTGTAGAGTTCTATAAGTTTTGAC
AGATGCATATAGTCATGTGTATACCACCAGAATTAATGTATAGAACAGTTTGATCACCTCCCCTCAAAAGCTCTCCCTC
CTTCTTATAGCCAGTGTCTCCCCACATCTTCAGCTCCTGGAAACAACTGATCTATGAATTGATATGTGTGTNTGTGTGT
GTGTGTGTGTGTATATATATATATATATATATATATATATATATATATATAGTTTGTTTGTTTGTTTTTGAGACAAAGTC
TCTCTCTGTTGCCCAGGCTTGAGTGCAGCAGCACAATCTCAGCTTACTACAACCTCTACCCCCCGGGTTCAAGTGATTC
TCCTGCCTCAGCCTCCCAAGTAGCTACGATTATAGGTGCCTGCCACCATGCCCAGCTAAATTTTTTTTTTTTTTTTTG
TATTTTCAGTAGAGACAGGGTTCACCATGTCNGCCAGGCTGGTCTCAAACTCCTGACCTCAGGTGATCCACCGGCCTTG
GCATCCCAAAGTGCTGAGATTACAAGCATAAGCCACCACATCCAGCCTATCAATTTATATTTTAAGCAGTTATCATAGT
TCTACAACTTTCCAGAATAATGTTTTATACACCAGGAAGATAAAATAATTGGATAGTGGATTTTTGTCTAGGAATAGAG
TTGCTGAAATTAGGAAATTAAAATAACATGTATTTATACTAAAAATTATCCATTACTTATATAAAATTCAGTGTAATTG
GGCATCCTGTATTTTATCTGGCAACCCAACCCAACCCCACTGGATGGGTATTGCCAGTGTGGGAACTGTTAGAATTGAG
GGTAAGTGTGAAATTGGCAGACAGAGAAGGAAACTGCAAGAAGAGANCATGGATCCTATCAACAGAATCATTCAGCCAT
TCAGACACTTTGTGACAACCTAAAAAGAGAGGAGGGAGTGAGATTTTTGTATGAAGTAAGAATTCACTTGTTTGTACAT
GAACAGCATATGCTAGCCTGCTTTGAAGACTGAAGTTCTTGGCTTTCCAGTTTATAAACCAGTTCTATCTGGGCAGCTT

Fig. 6.62

GCAGCCAAATTGTGTTGTGGAGGAATGGGACTCAGGAAGCACGGGCACCCTGAAATAGGTGGATGTGGTCTGTGGAAAA
GGTGGAAGCACACACTAGGGTTCTACCCTTAAGAAAATGAACCTTTGCTGAGTTATCAAAGT...GTACTTGCTATTTCT
CAGGATAGCCATGCCACAAACACATATTTACAGTAAAATTCAAGTTGGTAACAATTAAAATGACTGACCTCTAGTTTAT
CTATATATTATTGGAACAAAAGGGCTTACTGAGCAATGCCAAGGAAAGAAACTTCCAAGTGGGTTCTTCTTACTCTACA
TAAAAGAATAAACTATTTAAAAGACTTTTGGCAAGTCCACTGTTTATACTACCATAAGTCTTACCTTTCTGTTTTAAA
GCAAGCTTGGCAGGACAGTTACTTGGAAATAAGTTGTCAGTGTTTGGTCGGAGTGGTAGCAGTTGTGTCTGGAATTCTT
CATTCTTTTCCTCGCTCTCCAATAACCTACCCTGTGAGGCTGTCTCCAACCCCAGAGCCCTGACCAAGTGACCATGCTG
CTAAGCTGCTTGATAATAGTTTAATATCAGTAAAGGGACACAAGTTTAAAATTATTTGACATATTAGTGCTATCAGTTA
ATGACTTAAAAATAGCATCTTTGGTTTCTAGGTGTTGACAAAGATTCTCTAACTTACCAAACTTTAGCCATGCTCCTCT
GAACCCCCTTCTTGACTAGGCCTTAACTTCCTATCACAACTACAGATTCTCAACACCAATGATTTCATCCACTCGTGCC
CCACATTAAAAGACTTACACAAACACTAGAATAATTTCTAACAGCTCAAGGCCACATCCCTAGGACTACCCTACCCCAC
TTAGGATGCCTGCCTGAGGAAGCTCAAGGTTGCCAGGAGAGTTTACTATTTCTTCTAGCCAACACCCTGGAGCTAGGCC
CAACCACCCTTTCTTAGAGCATTTACTAAAAAGGGCTTACAATTGTGAATCCTTGCCCTGTAACCTTTGATAAATATAT
GCACTTCCTACTGCTCAAGAGTGTCTTTCTCAAGGACCCAAGAGCCATTCTTCTAAAAAGTAACCATCAGGAGAGAGAG
GGCCTCTGTCTTTTGGTATCTGGGCAGATAGAATCCTAACTCCCATAATTGTCTAATCAACTTTAATGTTGACCAACCC
TTTGTAATTTTTCACTCTCTGACTTCACTGAGCCTGCTCTCACCCCTTCCCTTTTCTACTCTCTCATTCCTCTTCTGAA
ATACACAGTCTCCTCTGTGCAAATCAAGGTTGAGTTCAGTTCACACTGCACTCCCTTCCCTATTGCAATAGCGTATTAG
TGGTTCAAATCTGTCCTCCCCACTTTAACTAGTGTCTGGCTTCCTTTATCTCTGACAGTGTGAAGAATTTGGAAATTGC
AAGGAGCATGGGAAGGAGATGATTTGGGGTAGGCATCTTTTATTTTTTAAATCACATTGCATACAGGTGGCTGTCTCTT
CTGCTCATACTCCTAGAACAGGCCTTTGGTGTATTTTGCTATATATAGGAGACTGGGACTAGAAGGTCACCCTGTTCAG
CTGTTTTCAGACTATCATTAGGTTGTAAATGGAATCCATTAAAAAATTATATGGAATGCACAAAATAAAGCAGGTGAAG
GCAAAATTACTCTTATGGAAACAGGGGTAGGAAATCTAGAATCGTATTTATTCCTTCTTTTCTCTTTATACTTATTTGG
GGAGTCTTAGCCTCATTAAGAACAACTGGGAGGGTAAAACACAAGTTTACAAGAAAACTAGTTTCCTCCCTTTCAGAGT
TCTTTCCATCCTGGCAGCTGAATGGACTCAGCAGCTCTCGGGGGCAGTGGCTTGAGTGTGCTGGGCTTGTGTCTCCTAA
ATAGGAAATACTACCCACAATGGGATAAAGGACCCACAGGGACTCTATAACTGGGGANTTAGAGGACACATCTTGTGTA
ATTCTGGCAGAAGGGCTAGGCATGAAGTCAGAGCAGGAGATGACTCAGAAATCCTGATGCTTAGAGACATTACCCTGTG
GCTACTGGGATCACTGCGATGAACTTTGCCTGAGGTCTGTAATGTGATTTACAATAATTATTCTATTCCCTTACTCACT
AGCTTGACAAGATGAACAAGTTAATGTTATTAGCTTCTCAAATTGGAAGATGATAATTATTAGGTGGGTCCATTGGGAG
TCAGGCTGGGGTGAGTTGTTATCAAATCAGAAGGAGTTATCAGTAGGGCACTAGTAATCAATAATGATTGAATGTGGGC
TACCAGAATTTGCCTTTTCATGATGTATACAGGACTTGTTTACATAACCANGTCTTCAAGAAGATAAAATTAGGAAGAC
ATCCAGATAACAGAAATGTGGAGAGACCTTGATATCATATTATGATTGAGAAAGAAAAAACACATAGACATTGACATTG
GGAAGGAATGACTACATCCAGTTATGGCAGCAAAGCTGTGTGTTGATTGATATTGTGAGAATGAATCAGTGATTGGGCA
CTGTGGCTAGGACAGAAAGGGTGACCCTGAGAGCCACAGTGCTTTTGTGTGTGACAGCCATGAAGAAAGCTTATCTGGA
CTTGATATTGACCCGTTGTGTATTTCCGTATTTTTTCTCTCTTTTCTCTCCTTTTCCTCCACTCTTTCCCTCTTCTCTT
TCAACCTCATGTTGAAAAAAAAACCTGAAGTTTGCTTGTGGAAATGGGTGAGATTTGTGAGTTATGATGAATTGGAATTA
TTTGCAATCAAATGGAAAGTTGTAACAACAGGTGTGGATGGATGCAGCTCACACATAATGCATGTGGTGAATTGAGGAA
GCTGGTAGAAGTTTGGGGCGTGATTGACAGGTTTAAATGTAGCAGAAATAGAGTAGTTGCTTTTGGCATTTTAGATTTT
TAAATAATACTTTGNTCAGGCCACACATTAGTTAGTCAGACACAGAGTTGGAACCATATTTGGAACCTTCGGAGCCTCC
ACGTGGGCTTGTTCATCGTCCTTATGTTAGGGTGACAAGGTTCGGAGCTAAAACCAGAGAGAGAAAGCCACAGCAGAAG
CCTCTTCCAGACCCACTGTGTCAGTTTTGAACTGAGGCATTTTCTGTCCACAGCCATATGCAGTGTGAACAGGCCACAG
ATGTACATCAAGTGAGTGGGTGAAATAACGTTTGGTGGGAAATGATGACAGTTTTATGGCATTAGTCCTTGAAGCCCCA
GGTGCACTTATTCATCTTTAATATATTTTAAGCTGTTAGCCTTGGGGATATTTCAGCCTGTTTGCANCTGTATTTTAAA
GATGAGCCCTGGAGTGAATCAGTGAGGGGAGCGAGTCATACCTGAACTAGGAGAAGAGATGAATGAATCTTTGTAGGAG
AAGAGTTAAGTGGATCTAGTTATCCCTGAACAAGGAGAATATATCAGGGTAATGAAGAGACCTAGAGGAAGGTCATCGT
TTCCTTTTAACCAGCCAGCTGGTTGACCTTCCTGCACCTGCCTTAGAGCCAACCTTGGCCTGGGCAGCTTGCACCAAGC
TTTGCATATGCCCCTTGGATGTCAGGATGCTATACCTGGATTATCCTGGCACAGAGCATGAATTATAATTCCTGATCTC
AGCATATTCTACCCTTTGACTTCTNTGTTAGGGATTTTGACTCTTCTGCTTCTGACTTTTCGATGAATCATGTCTCCTT
GACAGAGAGAAGGCTCTTTTTTTTAAAATGACTCATAGCCATATCTATATATAACCACTGAGTGATAAATAACTCATAG
CCATAGCTACATATGGCCACTGAATTGAGTGATTAATAATTCTGTTGTTATAAATTTGAGTGAATATATTTTGGTCAAT
TATGTGGTTGTGGCTATAAAGATAGCTAATAATCTTTATTAGAATTTGGATACTGTTGATTTTTTTCTTGTAATTTTAT
AACTTCCATTTCCCTGTGGTACATATGCAGTGTGGAATACTATGCAGACATAAAAACAATAAAATCATGTCCTTTGTAG
CAGCATGGATGCAGCTGGAACCCATTATCATAAATGAATTAATGTGAAAAACAGAAAACCAAATNTCCCATCTTTTCAC
TTATTAGTGGTAGCTGCTTATAAGTAACTGGACACACACAGACATAAAGATGGAAACAATAGATACTGGGGACTCCGAA
AACAGAGAGGGAGGGGGGCAAGGGCTAAACAACTTCCTNTTGGATACTATGTTCACTATCTGGACAACAGGATCAATAG
AAGCCCAAACCTTAGCATCATGCAGTGTATCCCTGTAACAAACCTGCATATGTACTCGCTGAATCTAAACTTTAAATTT
AAATTNNAAAAAAAAATTCAATGTTTGGACTTAGGCTTAAATTTCTAGAACTTTTTCCACCTCTAAGTTGTCATTATACA
AAGTATGTTTAATAGTAGCTGGAAGAGTTATTTAAATCCACACACTAACAGCAACCACAGTGAATACGGTTTAGGTAAT
ATTTTCTTTTATCCAACAGCTAGAGTGAGATGCACAGAACAATGAACAAGCACCTCAAGACCTTGGACTTGTTAGAGAT
TCAGAGTGAGTTTCAAAGCAAGAAAAGGCAGGAACATGAGTAGCATTCCTATAAAATAGCTACTGAAGCAGAGTAGCTA
AGGAAAGATGATTGTTGTAGAAACACAATCAGTGAAATAGTCTGGTAGAAAGACTATTCCTTAAAATTCTTATACTCCC

Fig. 6.63

ATAGAATTTACTTCTAAACCATACTGCCCTTAGACT GAGCAANAATATTCCCTGCCCAGCCCNGCATTTCAGAGGATC
CTAATTAAACCCTCCTCTTGCCTTCCCCTTCCCCACAGGGTGAGCATTCTGTAAGTCCAAGTAATCATATCCCCTAACC
CTCCCATGTAAGCCATGGTCTGGGTATCTGGACTCTAGAATTTCCTGCCAGGGTAGTCCAAAACCAAGACACAGGTCTA
TCCTTCAGGGGGAAGTTTGCNTTCCACACAAAGGGAGGCCAAGGGGCAGGGAATGTGAATGAATGAGAAACCATGGCGT
CCATACATAAGTTTGCAAATCTCAGTGAAAGAATAAGTTGGCATGAAGAGAAGGAGGGGTAGGAGAGAGCCTGGGGGCC
AGCTTCTTCTGAATAAGTAAATTCTGGTGCAGGGCTTTTCTTAGGTGCGTTGCATATGTTACCTCATTTAATCCTGCAG
AACACTTCAGGGTAGTGTTCTACTGTCACATTATGGGACAGGGAAATGAGGCTCAGGGGAGTTAAGTAACAGACCCAAG
GCAACTGACTTGGTAAGAAGTTGAGCTGAGATTAAACCTTAGGTGATTGAGCTCTAAAGTGCATGTATTTTTCTACCTT
GTTATGCTGCCTGTGATCAGTATCTTTGCTTTTATAATTTCCCAGTTCTTTCCAGAACCTAGCCTGGTCCTTGCACTTG
GTGACATGCAATAAATATTTGCTGAGTAACTAACAAAACAGACCATTTATTCACCTTTACTAGTTATTTATTATTTATG
TATTTATTCACCTTTACTATTAATGGTATATACAATACAACAGTGGTGTAGGTGAGGAATTTCATGTCAAATATACTGA
AAGGGACAGTTCACTCCTGATCCATCTGTACTGGATGGATGTGTTGATCTCCCTGTGGCCATGTAGCTTTTGGGCTTAT
CTCTCCATTTGTCAGTTTAGTAAATTGCTGCAAATGTTCTGGCTAGCAAGGACTCAAATGTCCCAGAACAAACTTTTGC
TCAAAGAAAATATTAATAAACACCATATATGCTTCTGTAGTCCAAAATGTTTTTCTTTTCTTACTTAAAAATGGCACAA
ACTCTGAGTATTAAGGTGATTCAAGAAGTTGTGAGAATGCCTGTTTCTCAGGAGTTGATTGGCAGGGTCCCTCTGTTGG
TGCGGCCCTGCTTGTCTGGGCTGTAGTTCTTCCATGTGTGTGGGCCACCCATGCTGGCTCCTGGANTGGTCAGTGTGCT
GTCCTGGGGCTTGGTCTTTCCCTCCGCTCACCCCCACTTATCATGGATGCCAAGACCATTCTCTGCTGTTGGCAGAAAG
CCATGGAACATACTTCCCTAATTCCTGCTATAGGCTCATTTGGTATTTTCCCCATGTGCTCCCATTTGTACACTTAATT
GTTTGGGCTTATTTGTCTGTCTTCCTTGCTAAACTGTAGGCTCATTTGCGCACAGGCTTTGTGTCTCTCTTGTTTACCA
TTATATCATCACATCTAACACAATGCCTGGTACATAGAATACTTAATGAATTTTTACAGAATGACAATGGACTGCCATC
ATAATTGAGTCATTAACTACTTTTTCAAAAAAGTTCTAGCATTAAGGTATCAGATCAAAGTTTCCTTTCACAAAAATCT
TACATTTTCCTCTATACTGTAATTGTATCTACCTGCTTGGAGACTCACCAAGAGTGTAGTCACTGTGTACCCTCCCAGA
GTGACTTTTTTATCTCATTTAGAACTATTTGTTACTGTGATTCTCTTAAGCAAATGGTTTTGCCCACGCAGAGCTGTT
TGCTCACTGACACAGGCTTAACTGGTTAAAGAACTCACAGGTTGTTTCTCACCATTAATGGCTATTATGTTATTTACC
ATCAGTTATACCTCATTTCTGCTTCTATCTTTACAACTGCAGGCTTTGGTCATTTTTAAAGTCGTTCAAGTTTAGATTG
CATTGACATTAAATCAAATCATAGAGGACAAACAACTATATATTTTCACCGAGAGTGGGCACAGTAAAGAGTTCCCAGG
CTTTCTCTCCGACTTTTAGATAGGTCTTTTTCAGAAGCTTCCTATCTCCCTAAGAAGTCTGAGAGTTATTACAATTTCT
TTACCCTTTGCTTACATATCCCATCACATAGAAAACCATTTAATAGAATCTATTGTAGCAGAGGCAGAACTTTACCTCT
GCTCTCATAGAGTCCCAGGTAGAACTGATGGTGAAATTGACATAAGGTAGATTAATAGGTANATTAGTCCATTCTCATG
CTGCTAATAAAGACATACCTGAGACTGGGTAATGTATAAAGGAAAGAGGTTTAATTGACTCACAGTTCTGAAGGTCTGA
GGAGGACTCAGGAAACCTACAATCATGGTGGAAGGGGAAGCAAACATGTCCTTCTTTACATGGTGGCAGCAAGGAGAAG
TGCTGAGCGAAGCAGGGGAAGTGCCCTTTGTAAAACCATCAGATCTCATGAGAACTCACTCACCATTATAAGAACTGCA
TGGAAGTAACCCCCCACCCATGATTCAATGACCTCCTACTGGGTCCCTCTCATGACACATGGGGATTATGGGAACTACA
GTTTAAGATGAGATTTGGGTGGGGACACCACTAAACCACATTAATAGGATAAAAGCATGTAAGTTTTACATAACACAGG
AGCCCTCATAAGGAAATGAAGACCCAAACAAGTGGCCAAACCTAAATGCTTTTATACTTGGTTGAACAAAGAGAGACGA
CTGTGAAAAAGTAACTAAATTATGTGGAAGACTAAAGGAAGATCAATAAGAATTATTTTAACAAGGTCTGTGTGTACA
GAATTCTCTTAGTTGTGACTCCCCATCAAAGAATGTTTCTTTTCTCCTGGCAGAAAGACAGCAACTTTCACATGTGAGA
TTTTATCTCCTGTTTTCAGGGAAAAAAGGGAAAAGATTAGGGTGCGCTTTTTGCATCTGCTGTTATTCAAGTGCCCTTA
GTTCAAACTAATCCTTATACCAAAATGGCATATTCTGGGGTACATATTCTGCCATTCTTCACTACTAAATAACAGAACA
TATGCTTACCTATGTACTAGCTATTTCATTTCTGGTATGTGCCAAACAGAAACATATATGCATGAGCCCAAAAAAATCT
ACAAAATCTTTATACCAGCATTATTTGTAATAATCCAAATGGAAAACAGTCCAAGTTTCCATCAACAGAAGAATGCATA
CCTAAACTGCCATATAGCAAATATATAGTGAAATATTATACAGCAATGAAAATGAAACAGTAGTTTTACTGCTATAGGC
AACAATATAGATGAATATAATAAACATAATGTTGACTAAATCAATTAAAAAAGAGTACATACTGAATGACTTGATTCCA
TTTGTATAAAGTTCAAAAATTGGTCAGATAATATTGCCATTTGGGAGATAATAACTGGGATCCTGTCTTTTTCCCTTGG
AGAGCTAGAAGAATGGACTCTTCTCAGAAAGGTGACCAAAACTTCATAAAATCTCCTTTCCCCAGAACATTATTATTTA
CTTACCTAGGTGCTGCCAACCACACCCCATTGTGTCCCTTTAGTCATTGTATGGAAGGAGGTCAAATGCCTTAGTCTCC
CAGTGACTAGAGCTAGATATCCAGCCATATGAACAGTTTGTTAAAACCAGGACTCTGAATTCTAATGCCCAATAAGGAG
GGTTGTACTTTTGTGAAAATAGGCTGGTGACAATTATCTGAGGTCAGAGGAAAGATTCTGTCATCATCATTGTCATGAT
CATAATTCTTATTTTGGTTTCTTTACTCATGTTTTTAAAAATTATATTTGTAGAAGCTATTATGTTAGGTTTAATAGAA
ATGTAGAAAAAACATAAAAATCATTTGCTCAGTGTGATGAATTTTCATATACTGAATATATCCATGTAACTTCCACATA
AATGTTTGCGATACTCATCTATATTGTTGCCTGTAACAGTAAAACTACTGTTTCATTTTCATTGCTGTATAATATTTCA
CTATATGTTTGCTATATGGCAGTTTAGGTATGCATTCTTCTGTTGATGGAAACTTGGACTGTTTTCCATTTGGACTATT
ACAAATAATGCTGGTAGAAACATTTTTGTAGATTTGTTTTGGCTCGCACATACACGTTTCTGTTTGGCATATACCAGAA
ATTAAATAGCTGGTACATAGGTAAGCATATGTTCTGTTATTTAATATTGAAGGATGGCAGAATATGCACCCCAGAATAT
GCCATTTTGGTATAAGGATTAGTTTGAACTAAGGGCACTTGAATAACAGCAGATGCAAAAAGGGCAGTCTAATCATTTT
CTTTTTCTTCCCCCTGAAAACAGGAGATAAAAACTCACATGTGAAAGTTGCTCTCCTACTACCAAGAGAAAAGAAACAT
TCTTTGACAAGGAGTCATAGCCAGAAGAATCCTGTACACACAGACCTTGTTAAAATATTCTTATTGATCTTCCTTTAGT
CTTCACACGTAATTTAGTTACTTTTCCACAATTGCCTCTCTTTGTTCAACCAAGTATAACAGCATTTAGGTTTGGCCAC
TTGTTTGGGTCTTCATTTCCTTATGAGGGCTCCTGTGTCATGTAAAAGTTATGTGCTTTTCTCCTATTAATCTATCTTA
TGTCAATTTCATTATCAGGTCTACCTGGGACTCTAAGAGAGCAGAGGTGAAATTTTGCCTCTGCTACAGTAGGTTCTAT

Fig. 6.65

TAAACGGTTTTCTATGGCATGGGATATGTAAGCAGGGGATAAAGAAATTGTAATAACTCTCAGACTTCTTAGGGAGTTA
GGAAGCTTCTGAAAAAGACCTATCTAAAAGTAGGAGAGAAAGCCTGGGAACTTTTTACTGTGTCTACCTCAGTGAAAAT
ACATAGTTGTTTGTCCTCTATAATTTGATTTAATGTCAATGCAATCTAAACTTGAACGACTTTAAAAATGACCGAAGCC
TGCAGTTCTAAAGATAGAAGCAGAAGTAAGGTATAACTGATGGTAAAACAATATAATATCTGTTAATAGTGAGAAACAA
TCTGTGAGTTCTTTAACCAGTTAAACCTGTGTCAGTGAGCGAATAGCTCTGTGTGGGCAAAACCATTTGCTTAAGAGAA
TCACAGTAACAAATAGTAGTTCTAAATGAGATAAAAAGTCATAAGAAACATTATGTACCTGATGGAATGTTTCAGGTGA
AATTGGGTCACTCGACTGGTTGTTCATCCTTACTTAATTCTTAAAATTTTCTGATGGCCTAAGAGTGAAAGTTTCTGAA
TTTAGCTGATCATATTTTAGGAAAAACACAGGACAAAATTTAAGTTGCTGAATTAAAGTGTCTAGTGTTATCCCTGATT
TTTAGGCAAGTCCTTATACTTATCTTTTACCTTTAAAGGAGAGTCAGAGATACCTAGCAGAATGGTTAAATAAAAAGTA
ATGACAAGAGCAAATGCTTGCAAGGTTGTGGAGAAACTGGGCCACTCATACATGGATAATGGGAATGTAAAATAGTACA
GGCACTCTGGAAAAGAGTTTGGCAGTTTCTTAAAAAACTAAACATGTAAGTACTACACTATCCAGTAAATGCACTCCTG
GGCATTTATCCCAGAGAAATAAAGACTTCTGTGTTCACAGAAAAACCTGTATGTAAGTGTTTATAGCAGTCTTATTTAT
AATCGCCTAAAACTGGAAGCAACACAGATGTCCTTCAGTGGGTGAATGATTAAACAAACTGTGGTACATCTACACCACG
GAATACTACTCAGCAATAAAAGAAACAAACTACTGATACATACAATGATCTAGATGAATCTTGAGAGAATTATGCTGAA
TGGAAAAAGCCAATCCCCAAGGGTTGCATACTATATGATTCAAATTATATAACATTGTTGAAATGACAAAATTATGAAA
TGGAAAACAGATTAGTGTAGATTAGTAGTTGCTAGGGATTAAGAAGGGAAGGAATAGGAGGAAACTGGGTGTGGCTATT
AGAGGGGCAACATGGGAGATCCTGCTGATAATGGAACTGTTTTATATCTTGACCATATCAATGTCAATATATTGGTTGT
GATATTATTACCATGGGGGAAAACTGGGTAAAAGATACACTGATTTTGTATTATTTTTTATAACTGCATGTGAATCTAC
AATTATCTCAAAATAAAAAAATAAAAAATAAAGTACAAGAGAGTCAGGGAAAGTTCTATGTAGTTTCTCTTAGATCAGT
TTTTATTTTTTAAACAGTTACCCATCCGTTTCTTAAATCTTATGGATTGTTATTAAAGGAAGGCCACTGCCTCTGCTTT
CCATTAAGGACAATATCAATCATCAAAGACATCTACAAAGTTTCTGAAATTCTTCATGCAGACTTTCAGGGGACCATTA
GATCATATTATTTTACCTGTAGGGATATATACAATCAGGCACAAATCTTAGATCTTTAAGAAGCAGTATAGCTGAACTG
CTGCTTAAATAAGTGGGAGGTTGGTTGAGGTTATTTTCCCCCTATAATTGCTTTTCTTCTGTCCCAGAAGAACCTGTCA
GACCAGTCATTAAGCTATTGTTTAGTTCTCATTTGGCTTAGGTGGTTCAGGGATCAGCTTAGGGAATAATAGAGGCAAT
GTAATGAATCTTAGTGGGAATAAAGTGATTGAGAATTTTGGTTTGTTTTTAAGGCTTAGAATATAATATCCATTCTCTA
GTTCCATGACTGCCCCAATGCAATTCTTTTTGAAATGCTGTAACTTATAGCCTGGGGAGCCTCACCATGTTCTTTTAGT
TTTTTCCTCTTCTATGTCATTGTGCACAGGATCTTCCAGCTTTTGGGTTACCATGTCTTTGAGTTTTCTAGTCTGAATA
AGATCTCTTTAGAAATCATATTTTTCTGAGAGCTATAGTTGACTATACTTTGTTTTCTGTTGTTTCATAGGATTATCTC
ACAAATCCTACGGTGAAACCATATGAGGTTCACAGTAACCATATGAGGCGTAGGTATTATCACCTCCATTTTATACAGA
CTTAAGGAAGCTAAGTAATTTGTCCCTGGTCATGTATGTGACAGAACCAGAATTTGAGTTCAGAAAGCTAACTTCACAG
TCTACACAGTTAGCCTCTCTTTATTTTTGTTTTTGTCTTTGTTTTGAGACGGAGTCTCGCTCTGTCATCCATGCTGGAG
TGCAGTGGCACCATCTTTGCTCACTGCAACCTCTGCTTCCTGGGTTCAAGTGATTCTCCCGCCTCAGCCTCCCTGATAG
CTGGGACTACAGGTGCACAGTACCATGCCTGGAGTTAGCCTCTCTTTATACAATACAGCATCTTTGAGTTNGGATTGAC
AGTTCTGTTCTTTCAAGAGACACTTTTTGAGACCTGTCATCTTTTAGGCACTGTGCTGGGTCCTATGGATAAAAAACTA
CTGAACATGATTCCTGTAACAGAGATGCTCCTAGTTTATTATAAGGACAGATGTTAGGTGCAGTGTGAAAAATAAAATG
TTAGACAAACAATCTCTTACAGTCTCGAAAATATTCAAATTCAGACTATTTTAGAGACAGCACATCCCTGAGAACAAAA
TAGTAAATAGTCAATTTATTCATTTGTTCATTCACCCAACAAAAATTCTTTTGAGTGTTTGCAATATGTTGGGTGCTAA
GCTAAGTCTTGGAGATAGAGTGGTAAAGGAAACAGATGAGGTCCTGCCCTTATAGAGCTTATTTACCTTTTAGTGAGGC
ATTTACTTAATCAAACGTTCATAGAAATAAACAGAAAATTGGAGCTGACAAGCACCGTCAAAGACAGACACATGGTGCT
ACCAGAGGAAATTAATGAGAGAGTTAGTTCTTGTTGGGGCCATATTACCTCAGAGGGAATAGCTCAGAAGTAAATAGGC
ATTAACTAGGTAAAGAATGGGAGCAGGGGGCAGAGGAGACAAAACCCTGTAGCAGATCAGGGCACTGAAATTCCGAGAA
CTGAAAGAATGCCAGAGAGACCTCAGGAGAGAGAGGCTGCGGGTGGGGGGTGGAGGGTGGTAATCATGCTAATTGAAGC
CCAAGAGACATCCAGAGGCCAGACAAAGCAAGGCTTTGGGGTGGTAGTAAGGATATTTAATCCCAAGAACAAAGGAAAG
TCACTGAAAATAACTGAGTGACAAAGTCATATTTGTTATTTAGACAGCTCTTTTTAGCTTGGCACATAAGTATTGGTGA
GAAGCCAAGGTATGCTGGGGAAAGACCAGCAGAGAATTGCTGAAGTTACAAGGCCAGATATGATAGAGCTTTGGCTAGA
GCTGTGGTATAAGGATGGAGGGAAGTGGAGGGGTATCAGATGTAGTTGGGAGGTAAGGGAAGAAATCAGTGATAGATTA
AACAAAAGCCAGGGGAACAAAAGAGTAAGGTTGATACTAAGTTTATCTGACAGTTGGTGGTANCATTTACTGGGATAGG
GACATTGGAAGCAGATCAGATTTGGAAGGCAGATTTTGAATTCAATTTTGGATATGTTTGGTTTAGGGTGACTTTGAGA
GGGAGAAAAGAAACATCAAGTAGACACTTAAGTCTGTGTCTGGAGCCTAGAGTGGAGGTCCACACTGGAGATACACCCG
TGTGTATCATAAGTGTACAGGTGGTACATGACATCATGGCCATAGATGCCACTGCCTAGAGATACACAAAAGAGTGAGA
AGAAAGGAGAGTCTGGAACCAAGCTTTAAGGAACTTAATCTCACATCTATGTGAACGAAGATCAACCTACAGAGGAGAT
GGAAGAATATCACAAAGATAGGTAGAGTTACAAAAATGAAAGGATGATATATTTTGATAAAGATCGGATGGTCAGCAAT
ATAAAATGCTGCTCAAATAACAGGTTTAAACCAGTTCTTTGGAGTTATTGACATGGAAGTCATTGGCAACTTTAGCGAA
AGCTATTTTATGAGGAAAAAGGTAGACTGGAGTGAAGAGTGAGTGAGGACTGGAAAATTGGATGCAATGAGAACAGAGA
GACAAAACTTATAAGAAGAGAAGAACAGGACATGTAGGATTTGGGGAAGACTTTCTAGATAAGATGGAAGAGACTTGAG
TATGCTTAAAAGCCATTGGTAAAGACTTAATTGACAGGGCTCTGACAGCTATTTCAGAGAGAAAATAGGTAACGGGTAG
TGTTAGCTCATGAGAAGGGGAATAAGCAGAAAGGGATTTGCGGAAGTGCCCTTAATTGCATGGTTGGTATGAGAAAGAT
AAGAGAATTCACCTACTGGGAATTATATCTTCCTGTAAGGTTGGAGACAGTATTATTGGCTGAAGGTGAGGGGACAAGA
AAGAGAGGTAAAGGTGTGAAAAGAGCTGAAAAAGTTTGAAATATGTTAGGGTTTTGTGTGTGTGTGTGTGTGTGTGTGT
GTGTGTGTGTGTGTGTGTGTGTATGTGTGTCCATATATATTCAATGTTTAGCTCCCACTTGTGAGAACATGCAGCAT

Fig. 6.65

TTGGTTTTCTGTTCCTACATTTGTTCACTTAGCATAATGGCCTCCAGCTTCAACCATGTTGCTGCAAAGGACATGATCT
CATTTTTTATGGCTGCATAGTATTCCATGGTGTATATATAGCACATTTTCTTTATGCAGTCCACCACTGATGGACATTT
AGGTTGAGTCCATGTCTTTGCTATTGTGAATAGTGCTGTGATGAACATATGCATACATGTGTCTTTATGGTAGAATTAT
TTATATTCCTTTGGGTATAAACCCAATAATGGGGTTGCTGGGTTAAATGGTAGTTCTGACTTAATTTCTCGGAGAAATT
ACCAAACTGCTTTCCACAATGGCTGAACTAAATTACATTCTCACAAGCAGTGTGTAAGCGTTCCCTTTTATCTGCAACC
TTGCCAGCAAATTAAAAAAAAAAACAGTATTTTTTGACTTTTTAATCATAGCCATTCTGACTGGTGTGAGATAGTATCT
TATTGTGGTTTTGATTTGCATTGGCCTAATGATTACTGATGTTGAACATTTTTACATATTTGTTGGTTGTGTGTATGTC
TTCTTCTGAAAAATGTCTGTTCATGTCCTTTGCTCACTTTGTGATGGGGCTGTTTTTTGCTTGTTAATTTGTATAAGTT
CCTTATAGATGCTGGATATTAGACCTTTGTCAGATGCATAGTTTGCAAATATTTTCTCCCATTCTGCAGGTTGTCTGTT
TAGTATATTGATAGTTTCTTTTGCTGTGCAAAAGCTCATTAGTTTAATTAGATACCATTTGTCAATGTTTTATTTTTGT
TGCAATTGCTTTTGGCATCTTTGTCATGAAATCTTTGCCAAGACCAAAGTCCAGAATGGTATTTTGTTGGTTATCTTCC
AGCATTTGTATAGTTTTAGGTTTTACATTTAAGGCTTTAATTCATCTTGGGTTAATTGTTGTATATGATATAAAAAAGA
GGTCCAGCATCAATCTGCATTTGGCTAGTTAGTTATCCTAGCACCATTTATTGAACAGGGAATCCTTTCCCCATTGCTT
GTCTTTGTTGACTTTGTCAAAGATCAGATGATTTTACGTGGGTGGTATTATTTCTGGGCTCTCTAGTCTGTTCCATTGG
TCTATATGTCTGTTTTTGTACCTGTATCATGCTGTTTTGGTTACTGTTGACTTGTATAGTTTGAAGTCAGATAATACGA
TGCCTCTAGCTTTATTCATTTGCTGAGGATTACCTTAGCTATTCAGGCTCTTTTTTGGTTCCATATGAATTTTAAAATG
GGTTTTTCAAATTTTTTGGAAAATGTCATTGGTAGTTTGACAGGAATGGCATTGAATCCGTAAATTGCTTTGGGCAATA
TGACCGTTTTAACAACATTGATTCTTCCTACACATGATGGTTGAATTTTTTTATTGGATTGTGTTATTTCNGATTTCT
TTGAGCATTGTTTTGTAATTCTCATTGTAGAGATTTTTCACCTCCCTGGTTAGCTGTATTCCTAAGTATTTTATTTATT
TTGTGGCTATTGTAGGATTGTGTTCTTGATTTGGTTCTCAGCTTGGATGTTATTGGTGCATAGAAATGCTACCGATTTT
TGAATATTGATTTTGTATACTGAAACTTTGCTGAAGTTGTTTATCAGATCTAGGAGGTTTTGGGCAGAGACTATGGGGT
TTTCTAGGTATAAAATCATACTGACTGGTGGAGCCAAGATGGCTGAATAGGAACAGCTCCAGTCTAAAGCTCCCAGCGT
GAGNGATGCAGAAGATGGGTGATTTCTGCATTTCCAACAGAGGTACCAGGTTCATCTCACTGGGGAGTGTCGGAAAGTG
GGTGCAGGACAGTGGGTGCAGTGCACCGAGTGTGAGCCAAAGCAGGGCGAGGCATCACCTCACCCAGGAAGCATAAGGG
GTCAGGGAATTCCCTTTCCTAGTCAAAGAAAGGGGTGACAGACGGCATCCGGAAAATCAGGTCACTCCCACCGTAATAC
TGCACTTTTCCAACAGTCTTAGCAAATGGCACACCAGGAGATTATATCCCGTGCATGGCTCAGAGGGTCCTATGCCCAC
GGAGCCTTGCTCATTGCCAGCACAGCAGTCTGAGTTCAAACTGCAAGGCGGCAGCAAGGCTGGGGGAGGGGCTCCCGCC
ATTGCCCAGGCTTGAGTAGGTAAACAAAGCGGCTGGGAAGCTCGAACTGGGTGGAGCCCACTACAGCTCAAGGAGGCCT
GCCTGCCTCTGTAGACTACACCTCTGGGGGCAGGGCATAGCCAAACAAAAGGCAGCAGAATCCTCTGCAGACTTAAATG
TCCCTGTCTGACAGCTTTGAAGAGAGTAGTGGTTCTCCCAGCACGCAGCTGGAGATCTGAGAACGGACAGACTGCCTCC
GCAACTGGGTCCCTGACCCCCAGTAGCCTAACTGGGAGGTACCCCCCAGTAGGGGCAGACTGACACCTCACACGGCTGG
GTACTCCTCTTAGACAAAACTTCCAGAGGAACGATCAGGCAGCAACATTTGCTGCTCACCAATATCCACTGTTCTGCAG
CCTCTGCTGCTGATACCCAGGGAAACAGGGTCTGGAGTGGACCTCCAGCAAACTCCAACAGACCTGAAGCTGAGGGTCC
TAACTGTTAGAAGGAAAACTAACAAACAGAAAGGACATCCACACCAAAACCTCATGTGTACGTCACCATCATCAAAGAC
CAAAGGTAGATAAAACCACAAAGATAGGGAAAAAACAGAGCAGAAAAACTGGAAACTAAAAATCAGAGCACCTCTCCTT
CTCCAAAGGAACGCAGCTCCTCATCAGCAACGGAACAAAGCTGGATGGAGAATGACTTTGACGAGTTGAGAGAAGAAGG
CTTCAGACAATCAAACTACTCTGAGCTAAAGGAGGAAGTTCGAAGCCATGGCAAAGAAGTTAAAAACCTTGAAAAACGA
TAAGACGAATGGCTAACTAGAATAACCAATGCAGAGAAGTCCTTAAAGGACCTGATGGAGGTGAAAACCAAGGCATGAG
AACTACGTGACCAATGCACAAGCCTCAGTAGCCGATTTGATCAACTGGAAGAAAGGGTATCAGTGATGGAAGATCAAAT
GAATGAAATGAAGTGAGAAGAGAAGTTTAGAGAAAAAAGAATAAACAGAAACAAACAAAGCCTCCAAGAAGTATGGGAC
TATGTGAAAAGACCAAATCTATGTCTGATTGGTGTACCTGAAAGTGATGGGGAGAATGGAATCAAGTTGGAAAACACTC
TGCAGGGTATTATCCAGGAGAACTTCCCCAATTTAGCAAGGCAGGCCAACATTCAAATTCAGGAAATACAGAAAATGCT
ACAAAGATACTCCTCAAGAAGTGCAACTCCAAGACACATAATTGTCAGATTCACCAAAGTTGAAATGAAGGAAAAAATG
TTAAGGGCAGCCAGAGAGGAAGGTCGGGTTACCCACAAAGGGAAGCCCATCAGACTAACAGCAGATCTCTTGGCAGAAA
CTCTACAAGCCAGAAGAGAGTGGGGGCCAATATTCAACATTCTTAAAGAAAAGAATTTTCAACCCAGAATTTCATATCC
AGCCAAACTAAGCTTCATAAGTGAAGGAGAAATAAAATCCTTTACAGACAAGCAAATGCTGAGAGATTTTGTCACCACC
AGGGCTGCCCTAAAAGAGCTCCTGAAGGAAGCACTAAACATGGAAAGGAAAAACCAGTACCAGCCACTGCAAAAACATG
CCAAATTGTAAAGACCATCAAGGCTAGGAAGAAACTGCATCAACTAACAAGCAAAATCACCAGCTAACATCATAATGAC
AGGATCAAATTCACACATAACAATATTAACCTTAAATGTAAATGGGCTAACTGCTTCAATTAAAAGACACAGACTGGCA
AACTGGATAAAGAGTCAAGACCCATCAGTGTGCTATATTCAGGAAACCCATCTCACGTGCAGAGACACACATAGGCTCA
AAATAAAGGGATGGAGGAAGATCTACCAAGCAAATGGAAAGCAAAAAAAGGCAGGGGTTGCAATCCTAGTCTCTGATAA
AACAGACTTTAAACCAACAAAGATCAAAAGAGACAAAGAAGCCCATTACATAATGGTAAAGGGATCAATTCAACAGGAA
GAGCTAACTATCCTAAATATATATGCACCTAATACAGGAGTACCCAGATTCATAAAGCAAGTCCTTAGAGACCTAGAAA
GAGACTTAGACGCCCATACAATAATGGGAGACTTTAACACCCCACTGTCAACATTAGACAGATCAACGAGACAGAAAGT
TAACAAGGATGTCCAGGAATTGAACTCAGCTCTGCACCAAGCAGACCTAATAGACATCTACAGAACTCTCCACCCCAAA
TCTACAGAATATACATCTTCTCAGTACCACACCGCACTTATTCCAAAATTGACCACATATTTGGAAGTAAAGCTCTCCT
TAGCAAATGTAAAAGAACAGAAATTATAACAAACTGTCTTTCAGACCACAGTGCAATCAAATCAGAACTCAGGATTAAG
AAACTCACTCAAAACTGCACAACTACATGGAAACTGAGCAACCTGCTCCTGAATGACTAATGGGTACATAATGAAATGA
AGGCAGAAATAAAGATGTTCTTTGAAACCAATGAGAACAAAGACACAACATACCAGAATCTCTGGGATACATTCAATGC
AGTGTGTAGAGGGCAATTTATAGCACTAAATGCCCACAAGAGAAAGCAGGAAAGATCTAAAATGGACACCCTAACATCA

Fig. 6.66

CAATTAAAAGAACTAGAGAAGCAAGAGCAAACACATTCAAAAGCTAGCAGAAGGCAAGAAATAACTAAGATCAGAACAG
AACTGAAGGAAATAAAGACACAAAAAACCCTTCAAAAAATCAATGAATCCAAGAGCTGGTTTTTGAAAAGATCAACAA
AATTGATAGACCACTAGTAAGACTAATAAAGAAGAAAAGAGAGAAGAATCAAATAGATGCAATAAAAAATAATAAAAGG
GATATCACCACTGATTCCACAGAAATACAAACTACCATTAGAGAATACTATAAACACCTCTATGCAAATAAACTAGAAA
ATCTAGAAGAAATGGATCAAGTCCTGGACAAATACACCCTCCCAAGACTAAACCAGGAAGAAGTTGAATCTCTGAATAG
ACCAAAAACAGACTCTGAAATTGAGGCAATAATTAATAGCTTAGCAACCAAAAAAAGTCCAGGACCAGATGGATTCACA
GCTGAATTCTACCAGAGGTACAAGGAGGAGCTGGTACCATTCCTTCTGAAACTGTTCCAATCAATAGAAAAGAGGGAAT
CCTTCCTAACTCATTTTCTGAGGCCAGCATCATTCTGATACCAAAGCCTGGCAGAGACACAACAAAAAAAGAGAATTTT
AGACCAATATCCCTAATGAACATCAATGCAAAAATCCTCAATAAAATATTGGCAAACCGAATCCAGCAGCACATCAAAA
GCTTATCCACCATGATCAAGTCTGCTTCATCCCTGGGATGCAAGGCTGGTTCAACANACGCAAATCAGTAAACATAATC
CAGCATATAAACAGAACCAATGACAAAAACCATATGATTATCTCAATAGATGCAGAAAAGGCCTTTGACAAAATTCAAC
AGCCCTTCATGCTAAAAACTCTCAATAAATTAGGTATTGATGGGACGTATCTCAAAATAATAAGAGCTATCTATGACAA
ACCCACAGCCAATATCATACTGAATGGGCAAAAACTGGAAGCATTCCCTTTGAAAACTGGCACAAGACAGAGGGATGCC
CTCTCTCACCACTCCTACTCAACATAGTGTTAGAAGTTCTGGCCAGGACAATCAGGCAGGAGAAAGAAATAAAGGGTAT
TCAATTAGGAAAACAGGAAATCAAATTGTCTTTGTTTCCAGATGACATGATTGTATATCTAGAAAACCCCATCGTCTCA
GCCCAAAATCTCCTTAAGCTGATANGCAACTTCAGCAAAGTCTCAGGATACAAAATCAATGTGCAAAAATCACAAGCAT
TCTTATACACCAATAACAGACAAACAGAGAGCCAAATCATGAGTGAACTCCCATTCACAATTGCTTCAAAGAGAATAAA
ATCTAGGAATCCAACATACAAGGGACGTGAAGGACCTCTTCAAGGAGAACTACAAACCACTGCTTAATGAAATAAAAGA
GGATACAAACAAATAGAAGAACATTCCATAATCATGGGTAGGAAGAATCAGTATCATGAAAATGGCCATACTGCCCAAG
GTAATTTATCGATTCAATGCCATCCCCATCAAGCTACCAATGACTTTCTTCAAAGAATTGGAAAAAACTACTTTAAAGT
TCATATGGAACCAAAAAAGAGCCCACATTGCCAAGTCAATCCTAAGCCAACAGAAGAAAGCTGGAAGCATCACGCTACC
TGACTTCAAACTATACTACAAGGCTACAGTCACCAAAACAGCATGGTACTGGTACCAAAACAGAGATATAGACCAATGG
AACAGAACAGAGACCTCAGAAATAATGCTGCATATCTACAACCATCTGATCTTTGACAAACCTGACAAAAACAAGGAAT
GGGGAAAGGATTCCCTATTTAATAAATGGCACTGGGAAAACTGGCTAGCCATATGTAGAAAGCTGAAACTGGATCCCTT
CCTTGCACCTTATACTAAAATTAATTCAAGGTGGATTAAAGACTTAAATGTTAGACCTAAAACCATAAAAACCCCAGAA
GAAAACCTAGGCAATACCATTCAGGACATAGGCATGGACAAGGACTTCATGTCTAAAACACCAAAAGCAATGGCAACAA
AAGCCAAAATTGACAAATGGGATCTAGTTAAACTAAAGAGCTTCTGCACAGCAAAAGAAACTACCATCAGAGTCAACAG
GCAACCTACAGAATGGGAGAAAATTTTTGCCATCTACTCATCTGACAAAGGGCTAATATCCAGAATCTACAATGAACTC
AAACAAATTTACTAGAAAAAAACAAACAACCCCATCAACAAATAGGCGAAGGATATGAACAGACATTTCTCAAAAGAAG
ACATTTATGCAGCCAAAAGACACATGAAAAAATGCTCATCATCACTAGCCATCAGAGAAATGCAAATCAAAACCACAAT
GAGATACCATCTCACACCAGTTAGAATGGTGATCATGAAAAAGTCAGGAAACAACAGGTGCTGGAGAGGATGTGGAGAA
ATAGGACCACTTTTACACTGTTGTTGGGATTGTAAACTGGTTCAACCATTGTGGAAGACAGTGTGGTGATTCCTCAGGG
ATCTAGAACTAGAAATACCTTTTGACCCAGCCTTCCCTTACTGGGTATATACCCAAAGGATTATAAATCATGCTGCTAT
AAAGACACATGCACACGTATGTTTATTGAGGCACTATTCACAATAGCAAAGACTTGGAACCAAGCCAAATGTCCAACAA
TGATAGACTGGATTAAGAAAATGTGGCACATATACACCATGGAATTCTATGCAGCCATAAGAAATGATGAGTTCATGTC
CTTTGTAGGGACATGGATGAAGCTGGAAACCATCATTCTCAGCAAACTATCACAAAGACAAAAACCCAAACACCGCATG
TTGTCACTCATAGGTGGGAACTGAACAATGAGAACACATGGACACAGGAAGGGAAACATCACACACTGGGGCCTGTTGT
GGGGTGGGGGTGTGGGGGAGGGATAGCATTAGGAGATATACCTAATGTTAAATGATGAGTTAATGGATGCAGCATACCA
ACATGGCACATGTATACACATGTAACCAACCTGCATGTTGTGCACATGTACCCTAAAACTTAAAGTATAATAATAATAA
AAAATAAAATAAAATCATACTGTCCGCCGGGTGCAGTGGCTCACTCCTGTAATCCCAGCACTTTGGGAGGCTAAGGTGG
GTGAATTGCCTGATCTCAGGAGTTCGAGACCAGCCTGGGCAACATGGTGAAACCCCGTCTCTACTAAAATACAAAAAAT
CAGTTGGGCATGGCAGCATGTTCCTGTAATCCCAGCTACTCGGGAGGCTGAGACAGGAGAATTACTTGAACTCAGGAGA
TGGAGGTTGCAGTGAGCTGAGATCGTGCAACTGCATTCCAGCCTGGGTGACAGAGCAAGACTCCATCTCAAAAAAAAAA
AAAATCATACTGTCTGCATACAGATAGTTTGACTTCCTCTGTTCTTATTTGGATGCCTTTTATTTTTTTCTCTTGCCTG
TTGTTCTGGCTAGGAGTTCGAGTATTGTGTTGAATAGAGTAGTAGTGATATTTGGCATCCTTGTCTTGTGCTGGCTCTC
AAGGGGAATGCTTCTAGCTTTTACCTATTCAGTATGATGTTGGCTGTGGGTTTGTTATAGATGGTTGTTATTTTGAAGT
TTGTTCCTTTAATGCCTAGTTTGCTGAAGGTTTTTAAAATGAAGTGATGCTTAATTTTATTGAAAGCTTTTTCCTCATC
TATCAAGGTGATCATGTAGTTTCTGTTTTTAGTTCTGTTTATGTGATGAATCACATTTGTTGATTTGTGTATGTTGAAC
TAACTTTGTATCCCAGGGATAAAGTCTACTTAATCATGCTGAATTAGCTTTTTGATGTCCTGTTCGATCCAGGACATAG
TTTGCTAGTATTTTGTTGAGGATTTTTCCACCTATGCTCATCAAGGATATTGGCCTGATGTTTTCTTTCCTTCTTCTGT
TTCTTCCAGGTTTTGGTATCAGAATGATGCTGGCCTCATAAAATGAGTTAGGGAGGAGTCCCTCCTAGTCAGTTTTTTT
GAATAGTTTCAGATAGAATTGTACCAGTCAGCTCTTTGTATGTCTGGTAGAATATGCCTGTGAATCTTTCTAGTCCTGG
GCTTTTTCTGGTTGGTAGGTGTTTTATTACTGATTCAGCTTCAGAACTTGTCATTGGTCTGTTCAGGATTTGAATTTCT
TCCTAGTTCAATCTTGGGAGGTTGTATGTTTCCAGGAATTTACCCTGAAAAATTCTAGGTTTTCTAGTTTGTATGCATA
AAGGTGTTCATTATAGTCTCTGAGGGTTTTTGTATTTCTGTTGGGTCGATGGTAATATCCCCTTTACCATTTCTGATT
TTGTTTATTTGGATCATCTCTCTTTTTTTTTCTTTGTTTGTCTAGCTAGTGGTGTATCAATTTTATTTATTCTTTCAAA
AAACCAACTCCTGGATTCATTGATNTTTCAATTTTTTTTGTTTTGCATTTCAATTTCATTCAATTCTGTTCTGATTTTG
GTTATTTCCTTTCCTCTGCTAGCTTTTGGGTTGGTTTGCTCTTTTTCTGTTTCCTCTAGGTGTGATGTTATGTTGTTAA
ATTAAAATCTTCCTAACTTTTTGATGTGAGCATTTAGCACTATAAACTTTCCTCTTAACACTGCTTTAATATTGATAAG
ATAGAGATTCTGGTATCTTGTATCTTTGTTCTCATTCATTTCAAATAATTTCTTGATTTCTGCCTTAATTTCAATGTTT

Fig. 6.67

ACCCAAAAGTCATTCAGGAGCAGGTTGCTTATTTTTCATGTAATTGTATGGTTTTGGGTGATTTCCTTAGTACTGATGA
AATGGTTTGGCTCTGTGTTCCCACCCAAATCTTGCCTTGAGTTGTAATTGTCATAATCCCC TGTCAAGGGTGGACCA
GGTGGAGGTTATTGGATCATGGAGGTGGTTTCCCCCATGTGGTTCTTGTGATAGTGAGTTCTCATGAGATCTGATGGTT
TTATAAGCATCTGGCATTTCTCCTGCTTGCACTCACTCCATCCTGCCGCCTTGTGAAGAAGGTGCCTGCCTTTCCTTTG
CTTTCTGCCATGATTGTAAGTTTCCTGAGGCCTCCTAGGAGTGCAGAACTGTGAGTCAATGAAACTTTCTTCCTTTATA
AATTACCCAGTCTCAGATATTTCTTCATAGCTGTGTGAGAATAAACTAATACTACTGATTTCTATTTTCATTAAGCTGT
GGTCTGAAAGTGTGGTTGGTATGATTTCCGTTTTTTTGAACTTGCTAAGAATTGTTTTATGACACATTGTGTGGTTGAT
TCTAGAGTATGTACCATGTGCAGATGAGAATAATGTATATTCTGTTATTTTTGGTTGGAGAGTTCTGTAGATGTCTGTT
AGGCCAATTAGGTGAAGTGTTAAGTTCAGGTCTCGAATATATCTATGTTAGTTTTCTGCCTCAGTGATCCATCTGATAC
TGTGAATAGGGTGTTGAAGTCTCCCACTATTATTATGTGGTTATCTAAATCTCTTTGTAGGTCTCTAAGAACTTGTTTT
ATGAATCTGGGTGCTCCTGTGTTGGGTGCATATATATTTAGGATAGTTAGGTCTTCATGTTGAATTGAACCCTTTACCA
TTATGTAATGCCCTTGTCTTTTTGATCATTGTCAGTTTACAGTCAATTTTGTCTGAAATTATAATACAAACCCATGCCT
TGCTTGGTATAATTTTCTTCATTCCTTTACTTTGAGCCTATGAGTGTCACTGCATGTGAGATGGGTCTCTTGAAGATAG
CATACAGTTAGGTCTTGTTTCTTCATTCAACTTGCCACTCTG TCTTTTAATTGGGACATTTAGCCCATTTACACTCA
AGGTTAACATTGACATGTGTGGAGTTGATTCTGTCATCATGTTGTTAGCTGGTTATTATGCAGACTTGATTGTGGAGTT
GCTTTATAGTATCAGTGATCTATGTACTTAAGTGTGTTTTCATGGTGGTGGGTAATGTTCTTTTCTTTTCATATTTGGT
ACTTCCTTATGGACTTCTTGTAATGCAGGTCTGGTGGTAATGAATTCCCTTAGCATTTGCTTCNCTGAAAAGATTATAC
TTCTCCTTTGTTTATGAAACTTAATTTAGCCAGATATGAAATTCTTGGTTGGAATTTCTTTTCTTTAAGAATGTTGAAT
ATAGGCCTCTGGCCTCGTCTGGCTTGTAGGGTTTCTGCTGAAAGGCCTGCTGTTAGCCTGATGGAATTTCCTTTGAAGG
TGACTTGCCAGCCGGGCGCGGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCCAAGGCGGGCGGATCACCTGAGG
TTGGGAGTTCGAGACCAGACTGACCAACATGGAGAAACCCCGTCTCTACGAAATACAAAAATACAAAATTAGCCAGGCG
TGGTGGCACATGCCTGTAATCCCGGCCCTGGGGAGGCTGAGGCAGGAGAATTGCTTGAACCTGGGAGGTGAAGACTGTG
GTGAGCTGAGATCGCTTCATTGCATGCCAGCCTGGGCAACAAGAGCAAAACTCCACCTCAAAAAAAAAAAAAAAAGACT
TATTTTAATGAGTTGGACTCAGATTAGCTAATAAAAATTGCCTAAGTGTGAACCTTCATATTTCCTATGTATGGGGAAT
GTTACGAGGTATGCTGGTGGGAACACAGGAGAGCACATGGAATGATTATCCCCCACTTGCAGAATTTCTTGTTTGGCTA
GAAAGGGAACATACTTGTACAAAAGGCATAAAAAGATGTTTAAAGAGGTGAGCAAAGGCTCAGAGAGTAAGAGAAAGTA
GAGACTACAGAAATATTCCATAAAGGAAGATTCAGGAAGAAGTGTGTCAGAAGTAGAGCAAGAGCGAAGGTTGGATTTG
CTGACTACTACTAATCCATTTCTCAGGAGCATGTGCAGATGCACATGGGAGGTTATAATGTCGGTATCTGTTAGAACCC
TATTCTGTTGGCCAGAAGTCAATCACACAACCCCACTTTTCTGCTAGGGTGGCTGAAAAATACTTTACCTGTGTTCCTG
GAAGGAAAGTGAGGCTTTTTTGAGCATTTAACCAGTCTCTGCTACACACCCACTGGAACTTTGCAGAATAAACTTCAGT
TCCTCTCCTCCTCATTCATTTTTAAACCTTCCCTTCTCCAAGTGAGACACTGTTAGTTCTATCAACTATTATTCATAT
ATTTATTTTTGTTCCCAAACCCTCTACTATCCTGGCCATCATAAAGCAAACATTCTTGATTTTTATTGTTCTTCTCAAA
ATGAGATGCTCACTGTAGAACGTAATACTGTATATGTGATTTTTTAAAATGCTGGTAAAGTGGGATTATTGTTTTCATT
GATTTCATAACTATCAGGTCAAAGAGAGGGCCAAGATTGGGGACTTTGCATTTTTAAAAAAAGAGAATTTGAAGAAGGA
AAAGGGTCTCCAGGATGCCACTTCAGTATGGCAGCTGTGGGAAGCACTAGTGGTAAGGTGCTAGCTATTCTTTCCTACT
TCTCCAAGAGGAAAAAGGGTACTCACACTCACAAATCAATTCATTTCCATCAAAACTCCAAAGTGAAGTCAAGGAGAAT
AAGTGCACTCAAATGATGTTACTTATATATTAGATTATGGATTTAAATAAAACACCAAGGATTTCTGTATTAAAATCTT
TTTATTGTGATGTTAACTAGTCCACATGTCTTACATAGTATCTAGGTCTTATGCTTAATAATTTGGCCAGTAGTCCAAA
TTATTACATGATATATAAGCAAATTAGCATTGCTATAAGAAACTAAAATTTATCACCTGCTGCTAATATGGCATTGATG
TTGTGCCATTTCAGCATATCCCTATGGCCCCATTCCTGATGTTTTCATCTGTAGATCCAGTGAGGAGAGAAAAAAATGA
GTCGTTTTTTCCTGTTCTTTTCTTTCAACAGTTGTGCTTTCAGTGTTCTCTGTTAAGAAATATTATAACCCTGAGGGAG
TGAATGTTCTTATCAGAGAAGAGAACTGGTTGAAAATGATTTAGTTTCTGAATTCCTAGAAGAAGGGAAAAAGCCTAAG
TGTCCATCTCTCTATCTAGTCTACTAATAGGATTACCTATTTCAAATATATATAATTTTTCTAAATTGAGTTTTTAATG
TCAAAGTTTCAGGATCCACTGGTTTCCATAGTTTTAGTTTGTCCAGTTGTTTATGGTTAGGCTCATTGTGAACAGTGAC
CATTATACTTCTCTTTTTCTATAAATGTGGCTGCTTTTGAGAATGGAAGTTGTAGGAAACAGAATTCATTGTAATCTGA
ATTTAAATTTAGCTTCCTGTTGCAGCTCCTCCCCTCCCCCTCCTCCCTCATGTTTCTCCCTGTCCCCAGACTGTCTTTC
AGAGGCAGATGCTATGCACATAAATGACATTTATTGATTTGAGTATTAGAGACTTTTTCTTGACAGACTCACCCATCAC
AATATTTAAGTAATATTAACAGTTTCCCACCAAGAACTCAGAGTAAACTAAACAGTGAGTATCCAGGCAGAAAGCCATG
TACTTTTAGAGCTCAATATGTTTATAATATATATGAAGGCAAACATAGAGGCAACATAAATACCTATTCTACTTGGTTG
TAATCTGCCAATTTATATTTTTCGGAGAAGAGTTTATCACTAAATCACTGAGAGGCAGAGTAGGATATCTGGGGGAAAT
GGTGGTGGGCGGGGGGCAAGTTTGTTATCTGGAAAAAAGATTGGGAGCCAGGGAGGATTTTCAAATTCGAATCCCTCAG
CTCAGTCTTGGGGCATTTGTTTTGCCATCTGAATTATCTTGGAACCCAGAGAAAAACTGGTTGTGAAAACTACAGATGC
AATTTTCTTCTTTGGCTTTTCCCATAATACTGTAATTATAAACCCATGCTGTGTTAGAGTGGAACATTCTTTGGAGAGCA
TCCTAAAGTGCACTTTGATCAAATTTTGCCTTATGTGGCAACATTTAGAAACACAAGCCTTCGTGGGGTTTCTGGCTCT
ACTTTTTACTGATGGGCTGATAATCTTATAGTAGCATTAGTTTTGCCACCAATTACCAAAGATTTGTTATTATTGGTTT
TTAAAATTGGACAATCCTTAAATGTCTACAGCAACGTTAGAAACAGACCCACAAGTGGGTGGGTCAGACTAGTTTGGAA
ACCTCCAATCTTGGCTATTTGGTACCTCAGAATTCAACAAGGGATGTTGGAAAATTTTCAAAATAAAATTAATTTAAAT
TCAGTTTTGCAAAAGATTATACTATAGAACACATTGAAAAAGAGAAGGTTAGCTGGAAAGTCAAACATAATAGAATTTG
AAAATTACTAGGCTTTAAGTTATGAAAATATTTCCCATATGTTGAGACAGAATTTGTATTCTCTTTTTTCTCAATGGCA
TTTTATGAGACTATATACTGCTGCTCTTCTGTATAAATAGAATAGAAACATCTCCATTTTTAAATTGTCATGGAAATAA

Fig. 6.68

GTAATGGCCTGTGAACAAAATGACTTCTTTTTGTTTTGTTTTGTTTTGTTTTGATGGAGTTTTGCTCTTGTTGCCCAGG
CTGGAGAGCAATGGTGCTATCTCGGCTCACTGCAACCATAGCCTCCTGGATTCAAGTGATTCTCCTGCCTCAGCCTTCC
GAGTAGCTTGGATTACAGGTGTCCACCACCATGCCCCACTAATTTTTGTATTTTTAGTAAAGACAGGGTTTCACCATGT
TGGCCAGGCTGGTTGCAAACTATAGGCTGTCACTCTCTATGCTTTAATATTTTGGTTAATTTTAAGGGCATAATTTGTG
GGGACATTGTTCTTATTTGCCATTACTTTTCATAGCAAAAACAGCAATTACTTTTGCACCAACCTAATATTTCCTTTGC
TAATCTAGTGTGACTTCGGAACAGTGATAAATAAAGGTTGGGGAAGAAAGGGCTGACTAGTAAATGCAGACAGAGTTGA
GGCAATTTCACAGTTCCATTGGCGTGTTCTATGGGCCATTTCACTTTCAGATGGTTTGTCTGGCTGAATTTAGAGGCTA
ACCTCTGGGGTTTTGCCTTTCTTCTTGTGACCTGAGAATTTGCTGGCATGTACAAGTCAATTTTCTTAATAGCCTTTCT
TGATTAGTCTATAGCTTCTTCAGTGAGTTGATATGTCACATTTACTTATACTAAAATCTTACACTAGACATATTTTGGT
GTCTTTGGCATCAAACCTCTTTTAGTCATTTGTCTTTCTTGTCTAGAGCTAGTGTCATAATATTTTCATTGTTACAGGT
TTCTAATACACTTTAAGATCTAGAATGACATAACTCCCATTGTATCTTTCTCCTTTTATCTTTTAAGAAAAAGAATTAC
CATGGAAAATAATGCTTCTGTTTCTGTGTCGTTGTTTAAAGTATTTACAACTCTTGTTGTGAATTTTTTTCTTTTAATA
TATTCCTGAACTTTATTTATATATTTAATTAGTTATGTTTGCATTTTTAAAAAGTGAGATAGGTGTATCTTTTCAAAAA
TAATCATTGTCAGGTATGGTATTAGGTTTGTAATAGCTATTAGCTATTACATTACTTTTAATGGCAAAAACCACAAATA
GTTTTGCAACAACGTAATATAATGAATACAATAGGCTTCCATTGTTTATCTATGTTGTGGAATATAGTGTAATTCTGAA
ATAACTTACTTCTTATACAATTTTTGTTTTGCTTTTTTGGTTTAGATCGACTTTTCTAAAAGTCTTTTTCTTTTGTTTC
TGCTATATATTTGTTTTCCTATGTTCCGGTTTCGATTTCTTTCTGGATCAGTTTCATCACTTCATGTTTTCTTACATTA
TTGCCACTGCATTAGTCTGTCACGTTAATCAGAATAGGATTGTATATGGTATTCTTTTGTATATTTTTAATCTTGTTTC
TATATTTGGTGAAATATACTTTGTAATTTTTAAGGAAATCTAAATTTTCTTGTCTTACTCTTGCAGAGTTCTACTTACT
TAATTGCCGTTTTTCTGCTTTGATTTTTATTAACTCATTTTTCCAGCCTTCCTTGGGGTCCTGATCTTTTTCTAGGTCA
TTAAATGAATATGTCATTCTGTTTTGTTTTTTATTGATTCGTTCCTGTGACTTTTCTTCAGGTTATTTTGTTGACCTTT
ATTGAACTTCTCCAGTTTATTGAGTTGAATATTTTGTTATTTTATTTTATTCAATTTTTAAAATGATGAGAACCCTGAA
TGCCATGTGTTTTTTTCCTTTTGAGTCCATCCTTTACCACACATCATTAGATTTTATATAGATTTTTCAGTTGTTCTTA
ACTTTAAAATAGTTTGTAATTACAATTTGGATTTATTCTTTAGCCTATGCCATTTAGAAATGTTTTATGTTAAGGTTTA
CCTTTGCGTTTTTATTTTTAAAGGTTATCTTATGATATTAATTCCACTGGATTATGTGTACGTCTTTCACATACTTATG
CATTCTTGTGGTTTATATAATTTCTATGTTTTATAGCTTTCATCTGCCTCTATCTAATATATGAACAATTTTTGATCAA
CTTTTTACAAAAGTATTTTCTTGATTTGAAGAATCCAAACTTTTAAATGTAACTGTTAGACCAACTTCATTAATTGAAT
TTACTCATATGCTTTATGGACCTTTTAATTTTCCAGCTACTTTTTCTCTTTAAGAGAGTTTTGTTAGACTTTAGTACTG
TATTTCTGTTAGTTTCTTCTTACAGTTATAACTATGTGTGTGTGTGTATGTGTGTGTATACACACATGTATATATATTT
ATACACACACATTGTAATATGTAGTGTCTTATGGGCTACAACATTTTCTTAGAGTCTATATTTTATTTGAAGCTAGAGT
TTTTTTTTTTTTTAAGTAAGAAGTTTTATTTCTTCCTGGAATCTTGCAGGATTTTTTTTTCTGTTTACTCAGTAGTTTA
AAAAGTGCCAGATATGTTAAGGTTTAGGTCTTTTACTGATTTATTTTTTTCCTGGAGCCATGTCACCCATTTTCCTGAG
ATCAGGAAAGTTTTCTTGGGATGTGTATTTGGTTATTGTTTCTGTTTTATTTCTCTGGACTCTCCTCTAGGAATACTGA
TGAGCTATATGTTAGCTCCCTAGTCTCTGTTTTTCAATTCTTTCTTCTTCTCTATTGTACTTTTATTTTCCTTTCTCCC
TGTGAAGGCTTATAGAACTGTTAAATAATGCTTAAGCCCACTGTCTTTCTTCAGTATCAATTAATTCTTCTACTTTGCT
TTTAATTTCTATGTAATCTTCCTTTAAAAAAATTCTCTCTCCCTTTTCATTTTACCCACTGTCCATTGCCTTGTTTAAC
CTACCTGGAATCCTCTTCATTTCATCCTGTTTTCTTTTCATAAAGGCCAATTTATTGGTTCTTTATTAAGGACACCAAG
TAGTCTTCTGAGTTTTTCTTTTGGATTCTGCAGTAAAAATTTTTCAGAGGTTTGTTCTGAATTTTTGGAGCACTATTCT
CTTTCCCCTGTTGTGTGTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTATAGCTCAAAACTAAAATAACTAGAGAA
TCAAATATATATATATATATTACTCAATTTTAAGTAAAGCCACAAAGATACCCAAGTTGAGTGGGTTTTTTTGGTCCAG
CTCTTTTTCTATTACAATGGTGTTGAAAACTTAATATCCAGTTTACAGTTTAATGAATATTGTTGGGTTTAGTTGCCAT
TTCAATTACCATTTTCTGTTAATTTTTATTTAAAGTATCTCCTCTCAGTTGGCTTTTGATCATTCAGCTTCTGCAGCCT
GATTCTTTGATACTATAAGAAGTTATACACGGTATCTGTAATTCTCAACCTATCAGGATTGCTCCTCTGTGCTCTGTTC
ACCTTTTCTCTCTCCATTTCTTTTTTTTTTTTTTTTTTTTTTTGAGACGGAGTCTCGCTCTGTCGCCCAGGCCGGACTG
CGGACTGCAGTGGCGCAATCTCGGCTCACTGCAAGCTCCGCTTCCCGGGTTCACGCCATTCTCCTGCCTCAGCCTCCCG
AGTAGCTGGGACTACAGGCGCCCGCCACCGCGCCCGGCTAATTTTTTGTATTTTTAGTAGAGACGGGGTTTCACCTTGT
TAACCAGGATGGTCTCGATCTCCTGACCTCATGATCCACCCGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAG
CCACCGCGCCCGGCCCTTCTCTCTCCATTTCATCAACCAAAGGCTCTACCTCTGCAGACTAAGCCTTTTGGAACATGTG
GCTTTACGGGCCTCTCTCCCCTACTTTCTGCTCACTTTTTTTTTCTTAAATACGCTGGAATGGTGGGAGAAAGAGCATT
TGCCTCCAAGTAAAATTCCCCAAACCAAGAACTCTGGGTCCCTTTTATCCAATAAAGAAAAGAAGGAGTGTTTGCTTTG
GCAGAACATATACTAAACTTGGAACAACACAGAGAAGATTAGCATGACCCTCACACAAGGATTACATGCAAGTTCCTGA
AGCGTTCCATATTTTCTTACGTAATAGTAAAGGGTTCGATTCAACAAGAAGAGATAACTATCCTAAATATATATGCACC
CCAATACGGGAGCACTCAGATTCATAAAGCAAATTCTTAGAGACTTACAAAGAGACAGACTCCCACACAATAATAGTAG
AAGATTTTAACACCTCACTGACAATATTAGACAGATCATTGAGACAGAAAATTAACAAAGATATTCAGAACCTGAACTC
AGCTCTGGATCAAGCAGACCTGATACATATCTACAGTATTCTCCACTAAAAACAACAGAATATACGTTCTTTTCATTGC
CATACAGCACTGACTCAAAATTAATCACATAACCGGAAGTAAAACACGCCTCGCAAATGCAAAACAACTGAAATCATAA
CAGTCTCTCAGATCACAGCACAATCAAATCAGAACTCAAGATTAAGAAATCCAGACATAGAGGCCGGGCGCGGTGGCTC
ACGCCTGTAATCCCAGCACTTTGGGAGGCCGAGACGGGCGGATCACGAGGTCAGGAGATCGAGACCATCCTGGCTAACA
CGGTGAAACCCCGTCTCTACTAAAAATACAAAAATTATCTGGGCGTGGTGGCGCGCGCCTGTAGTCCCAGCTACACGGG
AGGCTGAGGCAGGAGAATGGCGTGAACCCGGGAGGCGGAGCTTGCAGTGAGCCGAGATCGCGCCACTGCACTCCAGCCT

Fig. 6.69

GGGCGACAGAGGGAAACTCCCGTCTCAAAAAAAAAAAAAAAAAAAGAAATCCAGATATAACCACACAATTACATGGCAAT
TGAACAACCTGCTCCTGAATGACTCTTGGGTAAATAATGAAATTAAGGTAGAAATCAAGAAGTTCTTTGAAACTAATGA
GAAAAAAGAGACATCATACCAGAATCTCTGGGCCGTAGCTAAAGCGGTGTTAAGAGGGAAATTTAGGCTGGGCACGGTG
GCTCACGCCTGTAATCCCAGTACTTGGGGAGGCCTAGGTGAGCGGATCATTTGAGCTCAGGAGTTTGAGACCAGCCTGG
CCAACATGGTTAAACCCTGTCTCTACTAAAAATACAAAAGTAGCTGGGTGTGTGGCACGCACCTGTAGTCCCAGCTAC
TTGGGAGCCTGAGGCAGGACAATCTCTTGAACCTGAGAGGCGGAGGTTGGAGTGAGCGAGATTGTGCCACTGCACTCCA
GCCTGGGTGACAGAGTGAGACCCTGTCTAAACAAAACAAAACAAAACAAAACAAAAAACCAAAATTTATAGCACTAAAT
TCCCACATCAAAAATCTGGAAAGATTTCAAATTAACAATCTAACATCACAACTAAAGGAACTAGAGAATCAAGAGCAAA
CAAAACCCTAAGCTAGCAGAAGACAAGAATAACCAAGATCAGTGTTGAATTGAAGGGGATAGAGACACAAAAAAATCCT
TCAAAATATCAACAAATCCAGGAGCTGGTGTTTTGAAAATAATTAATAAAAGAGACTGCTAGCTAGACTAAAAAAGAAT
AAAAGAGAGAAGGATCAAATAAACACAATTAGAAATGATAAGGGGGATATCACCACTGACTCCACAGAAATTCAAATAA
CCATCAGAGAATACTTTAAACACCTCTATGTATATATATTGGAAAAACTAGAAAAAATGGGTAAATTCCTGGACACATA
CACCTTCCAAAGACTGAACCAGGAAGAAATTGAATCCCTGAACAGATCAATAACAAGGTCTGAAATTGAGACAGTAGTA
AGTAACCTACTAACCAAAAAAAGCCCTGGACTAGATGGATTAACAGCTGAATTCTACCAGAGGTACAAAGAAGAGCTGG
TACTATTTCTGCTGAAACTATTCCAAAAAAAAGGAGGGACTCCTCCCTAACTCATTCTATGAGGCCAGCATCATCCTGA
TACCAAAACCTGGCAGAGATATAACAAAAAAAGAAAACTTCAGGCCAATATCCTTGATGATCATTGATGCAAAAGTCCT
CAATAAAATACTGACAAAACAAATCCAGCAGCACATCAAAAAGCTTATCCACCATGATCAAGTTGGCTTCATCTCTGGG
ATGCAAGGTTGTATCAACATATGCAAATCAATAAATATTATTCATCCTATAAAAAAAACTAAAGACAAAAACCACATCA
TTATCTCAATAGATGCAGAAAAGGCCTTTGATAAAGTTCAACATCCACTCATGTTAAAAACTCTCAATAAACTAGATAT
TGAATGAACATACCTCAAAATAATAAGAGCCATATATGACAAATCTACAGCCAATATCATACTGAATAGGCACAAAACA
AGGATGCCCTCTCTCACCACTCCTATTCAACATAGTATTGGAAGTTCTGGCCAGGGCAATCAGGTGAGAGATAGAAATA
AAGGGTATTCAAATAGGAAGAGAGGAAGTCCAGTTATCTTTGTTTGCAGATGATATGATCCTATATCTAGAAAACAGAT
AGTTTCAGCCCAAAAGCTTCTTAATCTGATAAGCAACTTCAGCAGTCAGGATACAAAATCAATTTGCAAAAGTTGCTGG
TATTCCTGTACACCAACAGCAGGCAAGCAGAGAGCCAAATCATGAATGAACTCCCATTCACAATTACTACAGAAAGAAT
AAAATACCTAGGAATACAGCTAGCAAGGGAAGTGAAGGACCTCTTCAAGGAGAACTACAAACCAATGCTCAAAGAAATC
AGACATAACACGAATGGAACAACATTTCATGCTCATGGATGGGAAGAATCAATATTGTGAAAATGGTCATGCTGCCTAA
AGTAATTTATATATTCATGCTATTCCCATTAAATTACCATTGACATTCTTCACAGAATTAGAAGAAACTATTTTAAAAT
TCGTATGGAACCAAAAAAGAGCCCAAATTGCCAAGACAAGCCTAAGCAAAAAGAGTAAAGCTGGAGGCATCATGCTACC
TGACTTCAAAATATACTACAAGGCTACAGTAGCCAAAACAGCATGGTATTGGTATAAGAACAGACACAGAAGGCTGGGC
GCATTGGCTCACGCCTGTAACCCCAGCATTTTGGGAGGCCTAGGCAGGCAGATCATGAGGTCAGGAGTTTGAGACCACC
CTGACCAACATGGAGAAACCCCATGTCTACTAAAAATACAAAAATTAGCCAGGTGTGGTGGCATGCACCTGTAATCCCA
GGTACTCAGGAGGCTGAGCCAGAAGAATTGCTTGAACCTGGGAGGTGGAGGTTGCAGAGCTGAGATCGTGCCACTGCAC
TCCAGCCTGGGCAACAGAGTGAGACTCCATCTCAAAAAGAAAAAGAAAAAAAAAAAAGAACAGATACATAGCCCAATGGA
AGAGAATAGAGAACTCAGAAATAATACCACACACCTCCAACATCTGATCTTTGACAAATCTAACAGAAACAAGCAATGG
GGAAAGCATTCCATACTTAATAAATGGTGGTGGGAGAACGGGCTAGCCATATGCAGAAAATTGAAATTCGGCCCCTTCC
TTACACCATATACAAAAATTAACTCAAGATGAATTAAAAACTTAAATGTAAAACCCAAAACCATAAAAACCCTAGAAGA
AAATCTAGGCATTACCATTCAGGACATAGGTACAGGCAAAGATTTCATGATGAAAATGCCAAAAGCAATTGCAACAAAA
GCAGAAATTGACAAATGGGATCTAATTAAACTAAAGAGCCCCTGCACAGCAAAAAAAAACTATCATCAGAGTGAACAGA
CAGCTTACAGAATGGGAGAAAATTTTTGCAATCTGTCCATCTGACAAAAGTCTAGTATCCAGAGTCTACAAGGAACTTA
AACACATTTACAAGAAATAAACCAATGGCCCAATTAAAAAGTGGGCAAATGACATGAACAGACACTTTGCAAAAGAAAA
CATTCATGCAGCCAACAAGCATCTGAAAAAAAGCTCAGCATCACGTCATTAGAGAAATGCAAATCAAAACCACAATGAG
ATACTATCTCACACCAGTCAGGACAGCTGTGATTAAGAATAAAAAAAACAACAGATAAATGCAAATCAAAACCACAATGAG
GGAATGCTTTTACACTGTTGGTGGGAGTGTAAATTGGTTCAACTGTTTTGGGAGACATACTGGTAAAGTTGTAGAGAAAAA
TTGAGGCAGAAATACCATTTGAGCCAGATCCCATTACTGGCTATATACCCAAAGGACAGTGTGGCGATTCCTCAAAGACC
ATACATACATGTGTATGTTCATCACAGCACTATTTACAAAAGCAAAGACATGGAATCAACTTAAATGCCCACCAATGAT
AGACTGGATAAAGAAAATATGGAACATATACACCATGGAATGCTATGCAGCCATAAAAAAGGATGAGTTCATGTCCTTT
GCAGGGACATGGTTGGAGTTGGAAGCCACTGTCCTCAGCAAACTAATGCAGGAACGGAAAACCAAACACCACAGGTTCT
TACTTATAAGTGGGAGCTGTATGATGAGAACACATGGGCACATGGGGGAACAACACACACTGGGGCCTGTGGGGGTGGG
GTGGCTTGTGGAGAGGGAGAGTATCAGGAATAATAGGTAATGTATACTGGGCTTAATACCTAGGTGGTGGGATGATCTG
TGCAGCAACCACCATGGCACATGTTTACCTGTGTAACAAACCTGCACATCCTGCACATGTACCCTTGAACTTAAAAGTT
GAAGGAAAAAACAAAAGAAGGATATGTTCTTAGTTTTCTATACCTATGAGCCAGTCAATTGGAAGTGAAAGCTGGGTAT
GCCAAGGAATAACTAAATTCCCTTTACGGTTTCAAAGTTAGAACCTATTTTTCTCTTAAGATTATGGAATTGATTATCC
ATTACTTTTGGTTTTAAAGGCTGTCTTCAATGGTTTTAGTGACAAGTTGGTCACAGCAGCATTACATGATTTTAGCCAG
AAGCTATTTTGAACCTAAAATTCCTATCAGAAGGTTGAAAAAAAACCTAATTTTACTTTTATTTAGAGCTTGTGTGCTA
ATTATTTGATTTTTAAATTTCCGACTCCACTTGGAATGAAGACACACCTAATTTTACTTTTATTTAGAGCTTGTGTGCTA
ATTGTTTCCTTTCTTCCTTTTTTTTGAGATAAGAATCCCTCAAAAGAATCCAGTAGTTAATATTAAAGTATGAACTTTCA
TGACTGTTGAAATATAACAGAATCGCACTGTGTTTGAATTTACTGTGATATATTTCTAATGTCTTATATTTGGTATGTT
TCTCTTGTTGTTATTGCTGACACAAACCAAAGAACAAGAATTTCTTTTATGCCACTGATTTGCAAAGGTCGTATAGAAA
ATGAAGGGTCAGATAATGGATGTTAATCATCCTCATTGATGGATACATTGACAGGAAAACATAATTGAATTGCACATAT
TAGTGGAAGATAAAAAACCATTTCACAAATCGTTCTTAGTAGAGAAAAAAATGATAGGAGAGCTAAAATTGATGTGAAA

Fig. 6.30

AACACAGAAGGAAGTTAAGGGATTAGAGTGGGAGGGAAATTAGTGAATATCTATTTGTGTGCATGATTGCATTTTTGAA
ATAATTAGTTGCCTAATTTGTGTATCCAAATATAGTAATTGTTTTTCCATAGTCATGACTTAAATATTCTCTGTGTGTA
ATTTTCAGTTGCATACATTTTTTTGCAGAATCAAATTGCAGAGGAATACATTCATTTGAAATTTCTCTAGGGATGTGTT
TATAACCCATTTTGGAAAGAGTAGAAAGATTTTTTTTCTCTTCCAAATGGCTATGAAGGTGGATAACTTCTCTGATCTT
TTAGTAAACACTTTTATGTTAGTTGAATGGTATGCAGTTAGTCATAAACAGGAGAGATTGAGGAAAAATAACATGCTTA
ATGCAAATAAATTTTCTGTACCTGATAAGTTAATTGGAATTTTTTCCTGTAATCTTTTTTTTTTTATTTTTCTGGTAG
ATGCTTGTTGATTTAAGGTAAGATAGAAAAGAATCATCAAACTATATGTAAACCACAGCCAAATGATGAATTCATAGTT
TTTGCTCAAGTAGAGGGATTATCTGAAAGTACAAAAAGAATTTGATAATTGAGAAATACATTATTTTGAATGCACATTT
GAAGTAGCTAAAAATTCTACGCCACAGCTGAATGCACTGGCAGTTTGTTAATCACATCCATAAACATGAGTCTTCTACA
ATTGGAGTGGGCCCCACACTTGGAACATCTTGAAGATGTTTCTTCTTTGGCTGTGCTAAATTAAGCATGCAAAGAAGTT
ATATTGTGTTAACATTTCCACAATGAAATCTTATTGGCACTTCCTGTATAAGTGGCTGGGAATAGAAATTCTCATTTAT
GAATCAAAACACTTTGCCTTTTTATTTGGAGGTCAACCTACTAACCTTTGGTTATAGGATAATACCAGCAATTTTATTA
TAAAGTGTATTTCAGTAATTGGAACTGTGTTTTGATTATACAATTGGATAGAATGTATAATAAAATGAAATGAAAGAAA
TTTCTCCCAGAAGATTGAGTTAAAAATGTTTTGGTGATGAAATTGAGATGATGTCCAGATTTATAGCATGTTTGGTAAC
CATAACATACTTCTCGATATATTGAATTCCATGTAAATGCTTATTTCTTCAAACCCTTTAAATTTCAGAGTATTTTCTC
CCTTCTGTTATTAATCAGTTCTATTCATAGTGGATCTTAGAAAATTATCCAGTGATTAATATTTCTCCATATTTGTAGC
TTTCATTACTTTATATTTCTGTTTTTGCCTAGGCTCCTTGTTACCAGCCTGTTCTAATGTCACAAAACTTGGCAAACCC
TACCCAAGAAGGGTAAGGTTTAGTATCTATGAATTTTGAAAATACTTGATGAGAAAAGTTGCTTTTAAATTATTTTGAA
TCTTATTAATACCAAAAATATTTGAAAAAGAGAAGCAGGTACATTTTTCCAATATTCAAATTTCATTCAATGTATAAAT
ACTCAAACCTTTTTTTATAAATTATACTTTAAGTTCTGGGATACATGGGCAGAACGTGCAGGCTTGTTACATAGGTATA
CATGTGCCATGGTGGTTTGCTGCACCCATCAACCCATCATCTACATTAGGTATTTCTCCTAATGCCATCCCTCCCCTTG
CCCCCCACCTCCCGACAGGCCCTGGTGTGTGATGTTCCCCTCCCTGTGCCCATATGTTCTCACTGTTCAACTCCCACTT
ATGAGTGAGAACATGTGGTGTTTGGTTTTCTGTTCCTGTATTAGTTTGCTGAGAATGATGGTTTCCAGCTTCATCCATG
TCCCTGCAAAGGACATGAACTCATTCTTTTTTATGGTGGCGTAGTATTCCATGGTATATGTGCCACATTTTCTTTATCC
AGTCTAATATTGATGGGCATTTGGGTTGGTTCTAAATCTTTGCTGTTGTGAAAAGTGCTGCAATAAACATATACGTGCA
TGTGTCTTTTGCAATAGCATGAGGGAAGGAGATTGGAAAACATTGACTCATTGTACAATTTAAATACGCCAACTTTGTC
AACTTTTATTACAACTGGAAAGCACTTATGGTACTTATTAGAAAGAAAGTGTGTGGATACGTATGTGTGTAAAAATA
TGGCTCTTCTTAAAAGGAGGCTTACCCAGTCATTTTTTTTTGAATAATAGCTGCATTGGAGGTAAGAAGGTACCTCAAG
ACATTTTCTCTAATTGTGCAGGAAAAAACAAATAAAGGAGATGAAGACTAGGCTGCTGTCATTCTGTGCCATCTCTGAC
ATCTATGGAAAGCCTAGAGGCCCAAGAATACTTCCTCCCCAGGGTGCTATTGCAGTATCTTCAGGGTCCTGAGTCTGAA
TGTTCCTATTTTATGTAAGCATTGTACCCAGAAGAATGGGTCAGAACCTCTCCTATGGTCTGAATGTTTGTGTCCCTCC
AAAATTCATATGTTGAAGTCCTCACCTCCAAGGTGATTGTATTAGGAGTTGAGGCCTCTAGGGGGTGTTTAGGTGATCC
TCATGAATAGGACTGGTGCTCTTATAAAAGAGGCCCTAGGGATCTCCGTTAACTCTTCCACCATGTGAGGACACCGTGA
GAAGGTGCCATCTATGATGAAGCTGGCCCTTATTAGACATCAAATTCTCTGGTTCCTTGATCTTGGACTTCCCAGTCTA
CAGAATGTGAGAAATAAATTACTGTTGTTTATAAGCCATTGTGTTTGTGGCATTTTGTTTATGGCAGCCCAGGTGGACT
AAGACAGCCTTTTAATAGGCAAGGGGATCTAAAGACATAGGTGAACCAAGCAAGTCAGTCTGCAGCTCAGAAAACTCAA
GTCCCCATTCAGGCAGCTGCCTGATGATGTTAGCTGTAATCTCCTGTGTTTGTGCCTGACTTGCTGCCTCAGTTTAGCT
CAGTGGTTCTCAACTGGGGGCAACTTTGACCATAGGGACATTAGGCAACGTCTGGAGACATTGTCACAGCTAGAGGAAG
GGTGCTACTGCCATCTAGTTGGTAGAAGCCAGGGTTGCTGCTAAACATCCTGCAGTGCACGGGACAGCACCTCCTCCCA
TCCCAGCAAGGAGTCATCTGTAGGAATATTTGATAAAAGCCATCTACATAAAAGCCCAACAGCTCACATCATAATTAAA
GATGAAAGACTGCTTTTCCCATAAGATTGGGAACAAGGTAGTAATGACTGTTCTCAAATCTCTATTCAACATTTTACTG
AAGGTCTTAGCAACAGTGCAAGAAGAATAATTAAAACTCATACAATTTGCAAAGCAAGAAGTAAAGCAGCTTTTATTCA
CGTATGACATAAACAGATACTTAAATAACCATAAGGAATAGCTTCCATAAAGGGGACTTGAACCAATAAGTGAGTTTAG
AAAGGTCTCAGTATCTCAGTCAATACAAATTTAATCATGTTTATAAATACAATGGACAATTAAAACTAAATATTTAAAC
ATTTCATTTCTTATAATGCCAGAAAATAGAAAATACTTAGTAGCAAATTTAATGAAATATGTGCACAATTCTTATACTG
AAAACTATAATTTACCAAGATAAATTTAAGAAGACTTCAATAAATGGAGAGATATACTTTGCTCATTGATCAGAAGACT
CAATAACAATTTAGGATATTAATTTTTCCTGAATTAATCTATATATTCAAATTTATCTTAATCTTCATCACAATGGCTT
TTATTTTATAGGAATTGACAAGCTTATTCTAAAATTTATATGGGAGAGTAAAGAAGGTAGAATAGTCAGAATAATCTTG
AAAAACAACAGCAATTCTACCTGACTCTATAAAATATAGTTGTATTATAACTGTAAAAATACAGTTGTATTAAAGATTA
TGAGGTTTTGACATAAGGATAGACAAATAAATGAAGGAAATAAAAGAGTCCAGAAATAGACACACATTTATAAAGTAAA
TTGATTTTTTTCAAGACACCAAAGCAATTAAATAAAGGAATGGAGAGGCTTATTTATAAATGAAATTGGAATAAATTGA
TATCCATATGGGAAAAAAATAAATTTTCACTCCCTAAATTCACACCTCAGACAAAAATCAATTCAAGATGGATTGGAGA
CCTAAAAGCAAAGGTAAAACTCTGATACTTCAAGAACAGAACATGACAGGATTCAGAAAATTATAACCCTCAAAATTGG
TAAATTAGACTGCTCATCAAAAGACATACGTAAATGAGTAAGAGAGCCACTAACAGGACAAAAATATTTGTAAAACATA
TCTGACAAAGGACTTTAATCAATATCACATAAAGCACATCTACATTAATAAGATAAAGACCAAAGAAAATAGCTCAATA
AAAATGGGCAAAGCATTTCAAGGGACACTTTACAAAAGTAAATATACAAATGGCCAATGAACACAGTAAAGAGTGCTCC
ACATCTTTAGGCTTCAGCTAAATGCATTTACAACCACAAAGAAATACCACCACACATCCACTAGAAAGGACAAAATTAA
AAAGGTTGAAAACACCAAATACTGGTGAGGAGTTAGAACCACTGAACTCTTACACTTGTTGATAGGAAAATTAAATGTT
GTAACTACTTTGAAAAATGTTTTGCAGATAATAAAATGTTACTTTCACCTACCCTTTGACCTAGCAATTCCACTCCTAT
TGTTTACCCAGAAGCAAATTTTATGTTACACATAAAAAATTATATCATACATAAATACTTGTTAAAATATTCATAAACC

Fig. 6.71

CACATATTCATAAACCCACATATTAATCAAAAGAGAATCAATAAACAAATTTTGTCACAGTTATACAATGGAGTATTAC
TCCGCAACAAAAATGAATGAACTACTGATACCTGCAACAAAATGAGTGACTCTCACAGACAAAATGCTGAGTCAAGGAA
TCGAGACAAAAAGGAATACATGTGGTATGATTCCATTTCTAGGAAGTTCTAGAACAAAACTTAGGTTAGAAAAAGGGAA
AAAGGTTAGCCTCTGAAAGGGAAGACTGACCAGAGAGATGAGAGAACTTTCTAGGGAGATGGAAATGTTCTGTATCATA
AGGATGTGGGTTACATCTTTTTTTTGTTTGTTTGTTTGTTTTGAGACAGAGTCTCGCTCTGTTACCCAGGCTGGAGTGC
AGTGGCGCCGTCTCTGCTCACTGCAACCTCCGCCTCTCAGGTTCAAGCGATTCTCCTGCCTCAGCCTCCCGAGTAGCTG
GGACTATAGGCGTGTGCCACCATGCTAGGCGAATTTTTTGTATTTTTAGTAGAGATGGGGTTTCACCGTGTTAGCCAGG
ATGGTCTTGATCTCCTGACCTTGTGATCGCCTCCCAAAATGCTGGGATTACAGGCATGAGTGCCCGGCCGCGTTACATC
TTTTTAAGTATTTTAAGTAAATTGGTAGTCAGTGTTCAGGAATCCTTCTAATGACTCTTCAACAGGGGTGGCTTATGAA
ATAGTTCATCAATTTTTTTTTCTGATAAGGGGAGGTTGAGGCAGGAGGATTGCTTGAACTTGGGGGGCAGAGGTTTCA
GTGAGCCGAGATCATAACACTTCACTCTAGCGTGGGTGAAAGAGTGAAACTGTCTCAAAAAAAAAAGGGGGGAATTTAC
ACTCTTGAAAATAAATATTTCATAAGGAAACTTTAGAGTTCTCCAATATACATGATCAAACAAGGACCTGTTACCATTT
TGGACCATGTCATAATAGAGAGGAGATAGTTCAAAATTAGTCATATGTTCCAACAACAACATGATTATGGAAACTAGTC
TTAGAATTGAGAGTAATTGAAGTTTTTGTTTTTACTGGTATTAATAAATGGTATTACTCAATTCGTTGACAGTACCAGT
CTCTGCAATATCTTTTGTTGGGGAAGGGGGAGAGGACCTGTTCGTCTAATTAGAAACACATCTACATTTTAAGAATAAA
ATATTTTACATATACTTTTTGTTATTAAATCTGCAAACTCTAGAATTGGAAGAAATAGCCTTCATAACTCTTCACTGCA
AAAGTTATGAATGTTTGATAGAATTAATTAAAGCATTCAGTAGAATTAGACTTGTTTGGAAGGACTGTAGGATCTTTGG
CAAGAAGTGTGTTTTATATTGTTTCAGATGTATACCATTTTCTCTTAAGGTTTACAAGTTAATCAATAAAGATTCTTGG
CAGAGCTAAGTACAAAAGAACAATATGTATTTCGCATACCAAATGGATCTAAGTCTTAAGTGTTATTTGATGTCTCGAA
ATGTTTGGCTTTCAACTTTGTTTAAATGAATAGTGTGTATACAGTGAAGACAGGCTTTACTTAGCCATGCCTAGACCCT
CTGTGGATTCTCTCATAATCCTCAGTTATTGTAAACCATACTTAGTGAGACCAAAAGGATATTTTGTTTTGGCTGCATG
GTATTATTGGAAAACGGTAAAAATTTTATTCTTTAAATAATGTGTTTTTCTATTCAGAAAAATAATGTCTATAGAGATA
GTTATTTCAAAATGTAGTTTTCAATATGCACTTGTGGGTATGAACATGAACAAACACATGCAGACACACAGAGTCTGAC
GTTATATCTAGAATGTTGAATCCTACTTTTCTACTTAACAGGAATGTTTCCCTATGTAACGAAAAAGTCTGTATAATGT
GTCTCTATTATGTGTATTATATGAATTATATATCCTAATTTACTTAACCATTCTTTTATTGTATTGGTCATTTTCCCAT
ATTGCATACAAATTATTAGGGAACATCTGTGTGCAAACATTTTTATTTACATTTTGGATTATTTACTTAGAATAGATTC
CCGGAAGTGAAACTACCAGGTCAAAGGCTTTTCCCAATTTATTTTTCAAAAAGAAATTCCCACTGTATTCTATACAAGT
ATGCTTGTCTCACTGCCCAGTTGCTAGCCTTACATGGTTTTTTTTTAATTTTGTTTTTTATAAATAGAATCTCATTGT
TTTAGTTTGTATCTTTTGGATTACTAGTGAGTTTGAAATTTAAAAACCTGTCTTTTCAGGCCTTTGTCTTTTAGGGTTT
TTAGGATTTTCTTAACGATTAGCATCATCTCTTCTCTAAAAACGTTATATTTGTTCGTTATATTGTAATAGGTTTTTTT
TTGCTTTTAGCTATTAAGCTTTTAATTATATACTTGATTTTTAATTTAGAAAAGTAAAATTTTCTTCAATGGAGTTCTT
TTTTAAATTGAATTCTTTGACATTTTTATTATTTTGTTCAAAGAACCCTATGGGCAAGTGGAATCTTACACTTTTATTA
CCTGGATAGCGGATAACATTCATAGTTTGATATTTAATCTGTAGCATATAGTTGACTTTTATTTTTGGAATATCCTTGC
TTTAAAACTACAACTAAAGGAAGGCAGATGGTTAGCTTGTTTTCTCATTTCCTGAAAATGTCCAAGATTGGAACCAATA
TTATCAGTCTGTAATGGAGGTTGGCAATGTCAAGATGGTTTGTATCCATGTCAAGATGTTGAATCAGTGTCCAGGTCAT
TGCTCATTAAAGATGTTGCTCTTTGGATAAACAGGAAACCCAGAAAAAAGATTCTAACAATTTTTGATGCTACCTCACA
TTCCTTCGAGACAGTGCAGAACATTTCGTTCTTTAGAAAATATTCAGGTCTCTTTCTTTGTGTTACAGCACTTACTATT
TGTCTATTTGTATTATTGGCTTGTGACCCTTTTTTGGGGGGTTACAAATACACTAGGGGAAAGAGTATTTTTAAAAATC
ATTATGCCTTTGCTTTATCTATGTCTGTATACTCTCCTATTTGTTATTATTATTTTTATTTTTGAGACAGGGTCTCACT
CTGATTGCCTAGGCTGCAGTGCAGTGGTGCAATCACAGCTCACTGCAGCCTCCATTTCCCCAAGCTCAGGTGATTCTCC
CACCTCAGCCTCCTGAGTAGCTGGGACCACAGGTGTGCGCCACCATGCACAGCTAACTTTTTGTATTTTTAGTGGAAAT
GGGATTTCACTATGTTGCCCAGGCTGGTCTCAAACTCCTAAGCTCAAGCAATCTGCCCACCTCGGCCTCCTAAAGTGCT
TGGATTACAGGTGTGAGCCACCACTCCCTGCCTCCTATGTATTATTCTATATGTATTTTTTCATATTAATGTATAAGTT
TTTTCAAGTATGGGTTATTCCATTTGAACAAACCATTAATTCTCTGCTCGTCTATAGTCATTTCTTATTAGATGTGTCA
GTTCTTAATTTTATCACACATTAATTTCTTTTTTTGTTCCTTATACATTTTGTTTCCTTGAGATCTTCAGAATGTAAAT
CAATCTCCATTCTGTTATGATTTATAATCATTTACTTCTCAGATGATTCCTCCTTTAGTGCTTTGTGCCTTCTGTTATA
TTCTTATTACTTTTGATCTTTTATTGTTCTAATTTCACCTCTTCTCAACCCATCCCCACACTGGCAACTGTTATATGAA
TGGCTGGTCAGATGGAATCCACATATGTTCCGTATGCATGTATAGATTTTACTCAAGCCACTAGTGGAGACACTATTCC
TACTTACACATATGAGTACCAACCTCTCTGTGATGCAGCAATCATATCTTGACATATCTAGAAAGTTTCATCCTCATCC
ATAAATTACTTCATCTTTCTCCAAATAACTCAGGGAATTTTACATTAACCTACCCAATTTAACAATTTAGGAAAAATCA
ATTCAGTGACATGAGGTAAAAGATGCGCTGTCAAAATTGCAGTGTCTCTAAGGTGATTCTTTTTGACCAGACTAGAAAC
ACTAATCTGGCACTATTTTAGTTGGGGTTTCCTGGTACCTTTCCATGCCATAAAAATCTCTATAAAACAGAACAAATTG
CACATTTAATTATAGTTTCAAAAATTTGCATTCTTGGATGAAACTTTTTCTCTTGTCCCACTCTTGCCATAATTGCTAC
ATTGTCTACTGTTAATTTGCATTTTAACTGAGCTTTAAACATTTAACCAGAGGATGGTCCAATCGGAGATTCTATAACC
ATCTCAGTAATTGGTAGGCAAGTTATTTTTTATTGCTATTTCAGCAGTAGGGAAGTCTCCTCTACAGGGGTGGGAAAG
AGTTGATAACCTTCAAAACAGACTCTTTACTTTGGGGCTGTGATGAGAGAAACAGAACAGAAGTTAGGAATGGTGAAAT
TAGAAGAGACAGATGGTGAGAGATTATCATGATTTATAGGATCACCCAAATTGTCTAAAATTTACTCCAGAACTTTTTA
CCAGTTAGGGCAAAATGTCATGCTTATTTTGAGCTCCTATAGATACATTTAAATCAGACATACTGGACTTTGCATTCTG
TTATTTTTTTGAGGGGGGTGATATTTAAGGAGTTCTAGAAACAGCCTACATTAGACTTAGTGTTTCCAGCAACTAACAA
ATTTAAATGTTATAAACATTTTTCTAACGCATTTTCCTTTAAACCACTCTGGGGAAAGACATGAATGTAAGATGACTGA

Fig. 6.72

TTCTCAGATTATCTGCTTTTAGAACAACCTTCTTTTAGCTGCAAAAACGTAGTGACGGTGTTCTCAATGTGAGACGGGG
AAGATTTTAGTGGGCACAGCAGCTGTTGACTCAAATATAGTTATACATGTTCCTTCTGTGTTTTCTTGTAGGTGAATCA
GCAGTTTAGTTTATTATGAAAATTAGCAATCTATAAGATGATTCTGAAAAATGAATTCTCAGAAATTTAAGGTACACAC
ATGGCATGATTTGGTGAATATGAAGTGCTGAAGTGAAATACTCATATCCCATTGTGATCATTGATGTTCTTGTTGCAAT
TATGGTCATCATGTCAAGAACAAAATCAATTTGATGCGATTGAAAATAACAAAAATGCTTTATGTCTTTTAGAGAAAAT
ATAAATGATTCATTGTAAATGAGAAACCTCAAACTGAAAGCACATAAAATACCAGGTATGAGTGTTGCATTTTGAAGTC
TCTGACTACATGAGAGTTGTCTGTGAAATAAAATATCCAGTTACACAAAATATTCTTTATAGTTAAAAAACTTTTTTTC
ATACATATCACTAGTTAACTATTTTTAGTCCCATCTTTCCTATGTGCCCAGCAGTGAGCTAAAAGCTGTGCATTTAATG
CATTCTTCATTGTATTTTTGTTTTGTTTTATTTTGTTATTTGTAAAGATGGGAAAGACCAAATGAAAAGATGTCAAACT
TTTCTGGGGGTGGAGAGGACATTTGCATTTTGAATTTAGAAACCTAAATTAGAGGTTTAGGAAGACTCATAAATATGTA
GCAGAGGTTTGGTGGTCACAGCTAGAAGCTGACCACCACCATGGGGCAAATAATGATTTAACCTCCTCCTGTAAGTATT
TGATGTAAGATCATCGGTATATTTCATCTGTGACATTATCCAAGAAGAAGATGAATCTGAGGGAAACAATGCTTGCAGA
TTTGAGGGGGAAAAATGCTTGGAGTAGTTAGTCTCGGGATAGCCCTAGGTGATGATAATCCTTGCACAAACACAGCACA
CTGTTAGAACAGACAAAAGTCTGCAGAGGTTAAGAAGACCCTTGTTACATTGGAATCTTTCAATCACTTCTAGAAATAT
GATTTAGTTAAATCAATATTTTATTTAGCTCTAGGTACAATATTGATGCTAAAGAAGTTCTTGTTGAACCAACAAATGG
ATGCTCCTTTAAAATGCTGGAGGCATCATAAATGGCATGTTAGCATCAGGTACCTCCCTCTTGGAGCTTACACATAAAA
ACAAATGTACACAAATAGCAATAATCAAATAAAATATTAGGGGATTGTGTCAAATGAGAGCTAGTGACAACTGTTGATT
TAAAGATTCAGCCATTTCAAAGTTTTAGAAGTTTTAGGGATATAAACTAAAGAGTCCAGAGAAAGCAGGGAAAGTATAA
ACTATTTCTGCCAAGGATGGGGATTTTGAGGCAAGGTTGGATATTGCTATTAGGAAGAAGTGGCATTTGAGCTGGGTAG
GATTTTTACATTCAGAAATGTGAATAGGCACGTGTAGAGAAAAGGAGGCAGAGGATTCTGGATTGAGGGAATTTATTAA
TTCTTCATTCTACATTTGCTGATTACTTCCTATATACAAGATACTAAACTAAGTGCAAGGCACACAGGGTAAATAAGAA
TTTTAGTTCTTGTCTTTGAAGAGCCTTCCCGCAGTAGAGGAAACACGTACTTACAAGAGGCAAGCAATGGTGCCCTAAG
GCCTGAAGGGGGCGCCTCTCCTACACAGCAATACGAGGGTGGAGTTTATTTTCATGGCACCTCAACCCATCTGACAGCT
AGGGGAGCTGCATTTTCCAACAGAAGGTGCATTTTGTATATTTGTAGGCTGTTTTATACACTGCTTTGTGCTGAAGTTA
TTCAGGCATTTCTCTTCCCTCTAGACCTTAAGTTCATGGAGGCCACAAGCTAGGTTTTACCATTTTTGTATCCGTCTGT
GCTGTCTAGAGTAGTGCCTTGGACACACAGTAAGGATTAAAGACTTTCGGAATATAATTAAATTTTGCTTTTACTGGGA
AATAAAATATATCTCATAGAAGGCATGGTTGTCCTATTCTTCATCTAGTCTTTCAAAGTCTTTACAGTGTGTTGTGTGG
CAGAGGCCAACAGTAGTTAATACTGTGTTGAAGCCATACCTTTCATACTTGATGTTATTTTTGAACAATGAAAACTTTG
CAGGAAGTTCTCATCCCTTTGTGGCTAAGATATTTTCCATTAAGGGGGAAACAAAAAGAGAAACATTAGCAAGCTACTC
ATTTATTTCTTTTAAAGTTACTTGTTAGAAAGTCACCTTTCACCCCAATTTCACATTGAATTTAAGTTCATTCCTACCT
ATCTGACAGTAAGTCAATATTCTGAGATTGTTTCGGAGGCTTCTTATTTTTCCTCAGCTGTAAACTGAATTACCTTTTA
AACGATTTTCTAGCTAACAGTAAATGGTCCATAAAACATATGAATAAAAATGAAGGCAAACATTTCATGCTTAAATAGC
TATAATGGTAGTCGGTGTAATGGGCTGGAGTTTCAAAAATAACCAGTGATGAATCTCTTAGCGGCCACATCATATTATC
TGTGGTTTTTGCAGAAGTGTCATTTGCAGCTATTCTGACACACATCTTACTCTAGTTGGCAATTTATGATGTTTTATTC
TATGTAAACAAATGTCTGTCTATCTTTAGAGTACAAATATCTACGGAGATCAAATGTAAGAAAAAAGTGGCCCTGACTT
GGTTTCATTGTTGTCAAAAATGGTCTTTAAGAATGTTGTTTTTCTTTAGACAATATTACTTAAGTATCTACAATGGCTT
GTTGTATTTCATGGGAATGGTATTACTTTACAGCTTCTGCCAGGGTATGTATCAATCTTCTCTCTCACTAAGGAAACAG
ACAAATTCTGCTATTTCTTAAACAGTTTTTTGTGGCACTTATAAGAATTATCATGTTTCCCGGGTTGTTGTGACAGACT
GAGGATAGCTATGCCTGAATTCATGGTGACGGTAAAGAGAACGTGTAGTGTTAAACGGGCGTCCTGTTTGCCTGAAGTT
GTCCAATCAAAATGTCTTCATTGATACCAGCTATTTTCTTAAAGCTCTGTATTTGCTCAGAGGCACTGAAATGTTCCTT
TCCCCTTTCCTTGTGCACTCTGAAACATTTTAGAATGCTTTTCAAATCTTGAAATCTGGTGATTGCATTTGAAACAGTT
TTATAAACATGCAAACCCACTCATGTGATCTGCTGGGTTTTCGTTGAAACTGCCACTCACATGCCAGGGTTTGTACAAA
TAGACCTGAAAGGAATTCTCAAGGTCATTTTATTGCAATCCATATTTGATGAATTTGGGAAGTTGTGGGCACCACGTCA
CTCTGTGAACTTGTAGCAGGGAGCTGAGGCTGGTAAGGTAGTATCTCTTTATTTTCACTTTAGTAGTGTTATATTCACA
CATAGCTTTTCTTCTTAGGGTAGAAGTCTTCCTCTGCTAACCTTTGATTTTTTTGAAATTTCATTTTTTTAATTCTTCA
ACTCCCAAACAGATTCGTTGTTTTTCTTCCCTGTAATTTTTTATTTATATCTGTGTGTTTTGATTAAGGTTACTTTCTA
GTTGTAATGGGGAGCATTAGGCAGGTTTTTTTTTTGTTTGTTCTTTTCTAAATAATCAGGACTTTACACAAAGTTACAA
GCTCAATAAGCAACAGCCGAATCCTTATTCTACATATTTTTCAGCAGAGTGCCTTATCAGACACTATGTCCTCTCTAAA
GTCTGCACACCAATGTCTATGACATTCTAGACAGCTATTCTTTAGTACACCTTTGTACTTCAGGTCCCCTTTGTGGCGG
TGCATGTTTGCCAGGAATCCAAAATCTGTTAATGACTGTTGTACTTGCTATTATATTATATCATATAATTATTATGTAG
ACTGATGTAACATATAAGTAAAGAGAAGTGTTTATGTGAAAACTAAATAGAATGCTAGTAAATTTGCTAAAAAAATTAC
TGTAGAATTAGATGTAGGTGAGCCAATCATAAAAGATTGGGAGGAAATGTGAATGATTCTTAGATTGCTTCTCAAGTGC
CTTAACTTCTCAATTACAAAGAAACACTGTAAGCCATAGATGATGCATAATGGATGTTCTTGATGTAAGACATTGTAGA
AATCTAACTAAGAGATTCAAACTCAAAGCAAAGGCCTTGGCTCTACATCAAAAGAGTAGCCAACTATGTGCATTTAAGT
GTTGCCATTTATAAAGAATACTTGAGGTATTATTTCTGAAGATTCTTGACTTTAATATATTCATTTAACAAACTGGCCA
ACTACCTATCCTGAATATGTCATATGAGAGGGCTTCTAACATGAGAATAAATCACAAGCCTCTAGCTGTTCTCTATTTT
AAAGTGGGGATGAAAGGTGAACAAAGTGTTACAGATTCTCACTATTTGAGTATCTAATAGTGATGGGGAGGCTGTCCTG
TTGCCTTAGTTGTCCTGGAGAAATATCATCGGGGCCTCTTTTCTGTGATGCAGCTCATGGCAGAGTACACCACTGTCAT
CCTAAACTTTTAGCTAAAAGCAGATAACACACTTCTTTTTCATATAATGCATTTGTATCTGAATTAGGACTTTAGTGTT
ACGGTTAAGACCTACAGGCATTGATTACTTTGGGGTGAAGTCTGGTGACCAAAGACAGTGTTCCTAAAAAGTGCAACTT

Fig. 6.73

CCTGGGAGTTTCCACACCTAGCTAGGAGATTGTCTCAGGGACTTTTTACCCAGAAGATAACTCTATTATTGGTAGGCTT
AATAATAGCAGAAATACAGGCTACCTTATTTTCATGATTATGCATTTTTAACATTAATTTTTAATTTCCTTGAGATCAG
GTAATAGAAACATTAATAGCTCTCTATACTACCAGGCATAGTTACCTAAAACAAGGTGAGTGCTAAATAGGTGTAAAAA
TAATGATCAAGCTCCCAAAGTGTACTATTTAGTTATTTTGCATGACAATTTTAACAGAAATTTGTCTCCTATCACAAAT
TGCAGTTTTACCATATCAATTAGTTGGATCTTGTCTCATCTTTCCGTTCACTGTGCTACCTAGTGTGGATGATTCTGCG
TATTTTAATGTTGAGATGTGACCACACTGTATTCATTCAGCTGGTTTCTCAGAACTCGCTGAATATGGGACAGTTTTTT
TTTTTCCCAGTAGTGAGCTTGACTCTGTGCATAGGAAATACACGCAGTCCTCATGTGCCTTTCCCTTTTCTGCAGATGG
TAGTTCATGAGCCTCCCTCAAATATAACAGCAGCTCATAGGTGAATTTATCAAAGAGTATGGCCACCTTGGGAGACCTG
GCACATTTTACAGGCCCTGCTGTGATATAGAACAATCAACTCAATTTTTTTATGTGTTCTTTCCATTATTGTAACTCCC
ATGAGGTAAAGTGTTAAGCTACATTAAGCCTCATTAAGAGAAATTTGAGTTCATGATGCATATGTAACTTCGCAGTAAT
TGTAATTAGTACAATCTGCTTCTTGAATTTGCTAACATATTTGGGAAAAAATGTTACCATTTTTTATTTCTTTTAAAACA
TTTAATGCCAAAAACTTTTCAGTAGAGCATTTAGTACCTCTCACAAAATTTCATAAGTGGCTTTGATTGTGTGCAGAAT
TACATCAAATGATTAGGAGCAGACAGTTCATGAAACTAAGAACATAATTTACAACATTTGTAACAAAAAAGTATACTTT
GAGTCTCAAAGTATGAGTAAAACCTGAAATTGAATTTTTTGAAGTCAACTATCTCCTATATATTAACCAAAATTTATGA
AAAAATATCTATGACAAAATAAGACAAAAGATGGGCAATACTTCTAATAGAAGAGGGAGATAATGCATTAGGAAGCACT
CTCTGTGTAGATACTAATGAACCTGAGGGTATAAGATGGAGATAATATTAGAAAACATGGTAATATAGTACATACTGCT
CATAATTATAGTCAGAAATTTTACCACCCCCTCTCAGTAATTGGTAGAGTAAGTAGACAGAAAATCAGTAAAGATATAGA
AACTTGAAAAAACAATCAAATAACTGCATCAACATTTTAGAACACTCCACCCAACAACAGCAGAATATACATTCTTTTC
AAATGTGCATGAAATATTTACCAGTATAAAGTATATTTTAGACCATAAAATATATCTCAGTACATTTAAAAAGATTTCG
GACTATGTTCTCAAACTACAGTGGAATTAAGTTATAAATCAGTAGCAGAAAGATGCCTGGGAAGTCCCCAGATATCTGG
ACACTAAATATCATGCTTCCAAATAACTCATATGTAGTGGATTGAACTGCAGCCTCCAAAAGCATATGCCTATGTCTTA
ACCCTTGGAACCTGTCAATATGAACTTAGTTGGGAAACTGATCTTTGAAGAAGTAATTAAGTTGAGGATCTCCAAATGG
AATAATCCTGGATTATCCAGCTGGGCCCCAAACCCAACAAAACGTGTCTTTATAAAAGAAAGAAGACAAGAGGACATAG
ATACAGAGAACATAGTAATAACAAATTTTATTTGTTTCATTTGAAATCAACAAATTTTTAATGATGATGGACTCCATGT
GGTTTCTAAGCTGGAGCTTCTCATTATTTCTATGAAAGCCACTTAGAGGAAAAAGAATGTTTTCACTGTCACTGAAACC
TTGGGATCTTCATATTAGACCAAATTAAACAAGTTACCACAGGACTTCCAACCTACAATATGCTAATGCACTCTTCAAT
CTTCATTGATCAAATGTAGCATATTCCAGATTTTTTTTTACCGTATAATCCTTTTTTCCCTGAATAGTCTTGCCTGACA
AATAGAGCTCATTTTGAGAAATATATATATATATATATATATATATATATGTTTATTTCTCTCTTGTTCTTTAAAGATT
AATTTCTGTATCACATGAATTTCTGTATCACAGAATCCTTTTAGATTCTGTACACTAGGAATGATAATGACTTACTTGT
TTTATATGTTGAGTAATGTTGTTTAAAACGATGTTATTTCTATTGAAATAGAGTATCTCTCATTTTTTTTTCCTTTTTT
CCTGTTGGCCAGTCTGGAGTGCAGTGCTACAATCACAGCTCACTGTAGACTCAACCTCCCAGACTCAAGTGATCCTCCC
ACCTCAGCCTCCTGGGTAGCTGGGACTACAGGCATGCATCAACAGGACTGGCTAATTTTGTACGTTTTTGTAGAGACAG
GGTTTTGCTCTTGCCCAGGCTGGTCTCAAATTCCTGTGCTCAAGCCATCTGCCTGCCTCAGGGAGGCAATCCCAAAGTG
TTGGGATTACAGGATTGAGCCACCATGCTCGGCCCCTTCTTTTCTTATTCTTACTTTTTCTATTATTTTTCACTTCTTT
TACTAAGTTTATTATTAACTAAGTAAGTTAATAATTAACATTTCTTTTGCTTAATTTTTAAAAAAAGGGTTGGTCATGT
TAAAACTGTCCTGAATAAGATCTACTATCTATTGAAATAAATTCTTGTTCCTTTCATAAATTTATTATCATTTAGAATA
ATTCTTTGTAAAGATTTCATAGATTTCAGCCATCGTAGTTGGTATACTACAGAAATGACAGTGGGGAGAGACAGGAATA
AAGTTAAAGTAGTGTGGATATAGAATCAGTACATTTAGTGACTTTTTAGGAATGGCAAATAAAGGATTATTGTAATTTC
TGTTTTGGTTTCCTTGGAGGTTAATATTTCCTACTGAAATAGGGAAATCTGAAGGAAGAGCAAATTTCCACAGGAACGA
CAAGAAGTTTGATTTTGGATTTGTGTGGTTTTGAGGTACTTTCTTGTACGTTTGGAGAAAGTATCTAACAGGGAATTCT
GCTACTGAAACAAAGTAGAGTGAGAGGGAGGGGTAGACTTAGCTCCCCTGACCTTGTATGTATGGAGAAAGTATCTAAC
AGCGAAGTCTGCTACTGAAACAAAGTAGAGAGAGAGGGAGGGGTAGACTTAGCTCCCCCTGACCTTGTATGTATCTCTT
TTTCAATATTTATTTCTAAACTAGTTTGACAATGCTGCCTATGAACTTAAGCAGGTGCCTGAAATGATTGAAACGTCCT
TGTCAGCAGGCAGTGTGTTTCACATGTTAAGTTCAGTAATGGTGAACTTAATGTCCTCTGCTATATTGACCTCCAAAGC
CTTAGAGATTTGTGGCCTAAGAATTACACCAGATAGATTTTTATCTCAGCCCTTATTTTAGATAATAAACATATTTTTA
ATTAGTAAGTTAATAATTAACATTTATAGAGCCTTAATGTGAGCCTGGCCCTGCTATATATTATTTATGTTTACCAACT
TGCTTAGCTCTCACAATGATGCTATTTACTGATGAAGAGTTAAGTAACTTCTCAAGGCCCATGATGCATCCTGTTTTCA
GGCATCAGGTGCTGAGGGTTTGTTCCAGCAGCCTCTGACATCTGGTTATATGAACCTGAGGCCACGAAGTGTAGCTCTC
CCTGCCTCAGATTATATCTATAACTTTGGCTTGTACTTGTTCCTGGTTTGTTTCTTACTCTCTTGTTTTATTTAAGCTA
CTGTTAGTGACTTAGTAATGTTTTCAGATAATTTCTATTCTGCAAAAGTTAAATTTAATTATATTCACTAATTATTCAT
CCTATTAAAGAATTGAGACTTCCAGGAAGATGGAGTATACATAGCTTTCCCTATTCCTCCTGCTAAATACAACTAAAAA
TCTTGGATATTTTATATATATGTGTGTATATATATTTATATATATATATGTATGTATATAGAGGAATACTCTGAAATAT
GGAGAGAAGGCAGAAGGCAGACTAGCTTGGGGCCTTGGGACCAAAAGAAAAACATATTAATTGCTGTGTCACATGAGTT
TCAATCAATTTAGATTCCTTACTCTAGGAATGATAATGACTTACTTGTTGCATATGTTGAGTAATGTTGTTTAAAACGA
TGTTATTTATATAGAAATAGAGTATCTCTCCTTTTTTCTTTTCCTTTTTGAGACAGGGCCTTGTTCTGTTGCCCAGCCT
GGAGTGCCCTGGGTTTTCTTTTTTTCTCATATATACCAGACTTGGAGCTTAAGAAATCAACAACATGGGCTGAGTGTGG
TGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGCGGGCGGATCATCAGGTCAGGAGTTCAAGAATAGCCTGG
CCAATATAGTGAAACCCCATCTCTACTAAAAACACAAAAAAATTAGCCAGGCATCGTGGCAGTGTCTGTAGTCCCAGCTA
CTCAGGAGGCTGAGGCAGAACCATGTGAACCCGGGAGGTCGAGGATGCAGTGAGCCCAGATCATGCCATTACACTCCAG
CCCAGGGGATAGTGTGAGACTCTGTCTCAAGAAAAAAAAAAAAAAAAAGAAATCAACAACACAAAAATACCAATGCATTAC

Fig. 6.75

ATGGTAAGCAAAAACATTCTTAACAAAAGCATGCTTTCTATAATTAAAGGACCAGAGAGGGTCAACCTAACAAGACAAA
ACTTTTAGATAATAACCACCATATTCCAGGTAAATAACAGAAAAAGCATTGTGGACCCAGTCA TCTATACCTGCAAA
AGCCATGTCGGGAGCTTAGGTTTTTACTTTTTTGAGATTCTGATGAAGTACCCCAATGTCCACACTGGGATAGTGTCAG
AAAAGGCAAGGAGGGAACCAGGAGTTTTATCATCACTGAGCTCCATTTCTATTCTCAGTGTCAGTGGAGACCACATGGT
AATTCTGGACTTCCAAAGCCATCTGGAAGTAATAGGGTGCTCTTTCTTCTCCTGACTGGCTGGTGTCCGTGGAGGCCT
AGACAATATTCAGGACCTTCACCACTGCCCTATGATAACAAGGCCACCCTCATTACAGTGTTCCAACTGGGAGTTGGAA
CTCCTAGAATTCTCACCTTCACCCAGCAGTAATAAGGAGCCTCTTCCTAAGATGCTGAATGGGGAATCTGGGCTTTGCA
TCCATGTGGAAATCATGAGGCAGTACCACCTGCCCCTTCACCTGCCAGAGAAGTGTCAGAGAAAGCCAATTAAAACAGA
AGATTTAAATAAGAAATGGCATCTCTTAACATAATTTAAAAATGAACAGGTTTTAATAAATTATTCTTATACCAAGAAC
TAGATCTCAAAATGAAGGAAAATTGCAATTAATAGATACCAACACTGAGATGACAGAGGTGTTAGAGTTATTTGACAAC
AGTTTTAAAATAGTCATGATAAAAACGCTTCAATGAGCAAATCTGAACACCTTTAGAATGAATGAAAAAGTAGAGAACC
TGAACAAGGAAAGAGAAGCCCTCAGCAAAGAAATAAAAGAGAAAAAGATGAGCCACGTGGAGTTTTAGAACTGAAAAAT
ACAATAACTAAAAGAAAAAGCTTAGTGGATGGGCAGAATACAGGAGATAAAAAAATAATAAAATGGAAGACAGAAATTA
CCTAGCCTAAACAACAGAAAAAAAATAAATGGGAAAAACAAAACAAAACAAAACAAGAGCCTAATGGGCCCATGTAATT
ATAACAAAAGATCTAGCATTCATGTCATCAGAGTACAGAAAGAGACGAGAAAGAGGGATGGGATGAAAAACTACTTGAA
GAAGTAATGGTCCCAAACTTCCCAAATTTGGTAAAACACATAAACCTGAGTGAACCATAAACAGGATAAACCCAAAGAA
ATTCATACCATTTCATAATTAAACTTTCAAAAATGAAAGACACAAAGAAAATCTTGAAAGCAGCCAGAGAAAAATTATT
CCTTACTTATATAAGAAAATCAATGAAATGGCAGTAGATTTCTCATCAGAAACCATGGAGACCAGAAAGAAGTGACACA
CATTTTTTTTATGTGCTGAAAGATAAGAATTGTGACCTATACTGAGTGAAAACACCCTCTTTAGGAATGAAGAGGAAA
TCAAGACATACTTAGATAAAAACAGATTATCACCAGGAGATCTGCTGTAAAAGAATGGCTAAAGGAAGTTAGCTAAGCA
GAAAGGAAGTAACATAAAAAGGAACCTTGGAACATCAGGGAGGACAAAAGAACATGGTAAGCAAAAATATGTATAAATA
CCATAGACTTTCCTTCTCCTGAGTTTTCTAAATTATGTTTGATGGTTGACAAAAATTATAACATTTTCTGGTGTGGTTC
TAAGTGTATGTAGAGAAAATATTTAAGGGAATTATAAGTGTGGAGGGTTAAAGGGACGTTCAAAGAGGTAAGGTTTCTA
TACTTCACTTTAAGTGATAAAATGACAAAACCAATAGACTTTGATACATTAAACAAATATGATGTAATACCTAGAGCAG
CTACTAAAAAAGTTGTACAAACAAAAAGTAAAACAGTAGAGTTAAGCCCTAGCATACCAATTATTGCAGTAGCTGTAAA
TAGTCCAAATGCACCAATTAAAAAACAGATTGTTACCTTTTTTTGTGGTAAGAAGACATAAAATCTATTCTCTTAGCAA
AATTTCAGTATATGATGTAATATTATGAACTCCAGCCCTCATGCTAGTACATTACATCTCTAGAATTCTTTATCCTATA
TAACTGCATTATGCTATGGTACACAGGATGGTTTCCTTGATTTCTTGTTTGGATAGATCATTATTGGTGTAAAGAAATG
CAAATGCTGGTATGTTGGTTGTGTATTCTGCAGCCTTACTGAATTCATTTATTAATTCTAACAGATTTTTGTGGAATTT
TGTATCATGTAATCTGCAACTAGGAATAATTTTACTTCTTCTTTTTTGATATGGATATATTTTTAAATCTGTTTCCTCT
CTAGATGCTTTTGCTAGAACTTTCAGTATTATGTTGACTAGAAGTGGCGAGAGTGAGGATCCTTGTCTTGTACTGGCTT
TTAGAGGAAAATCCGCTTTTCCCCATTGGATATGCTAATTTTCTTTTGTTTGACTGTAGTAATCATTTTATTATGTATA
TGTATATAAAATATTGTTTTATATACCTTAAATGTATACAATTAAAAAATAAAAATAAAGGCACATGATGTAAAGGAAA
AAACAAACAGAAGAAACTTAAAGCAAAACAAAGCAAAAAACAAAGACTGGCATTATGGAATAAAAAATATGACCTAACT
ATATGCTGTCTAGAAGCAACTCACTTCAAATATAATGATATAGGCAAGTTCAAAATTAAAAAGATAAAAATGTATATCA
TATAAATATTAATCACAGAAAAGCAGAAATAGTTATACTATCTGATAAGGTAGACCTCAGAGCAAAAAAAAAAATACTAG
TGACAAAGAGGTACATTATAAAATGGTGTTAAAAGAAAAACTTTAGACAAATTAAATTTAACAAGTTTAATCAAGCTAA
GAATGATTCGCAAATTAAACAACCCCCAGAACCAGAATAGATTCAGAGCAACTCTGGCACTGCTGTGTAGTCAGAGAGA
ATTTGTGGAAAGAAAAAAGAAAGTGATGTACAGAAAATAGAAATGGGATACTGAAACACCTGGATTGGTTACAGCTGGG
TGTCTTATTTGAACAAGGTTTGAGTAGTTGGCTGTCTCTGTGAATGCTAAAGTATGGCTGCTGTGATTGGCTGAGACTCTG
CTACTTACAAGAGTAGGTTGCTGTCTATTTACACACCCTGTTAGGTTACAGTTCACTATATACATATAAACCATCAGGC
CTAACTTAAAATGTGTAAGGAGTCAGCTTTAGGCAAGTTTAATTAGGCATGGTAAAAGGGTCACTTCACCAAGAAAATT
TAGCAATCTTAAATGCATATGCAGACAACAGAGCTGAAAATATCCAAGCAAAACCTGATGGAACTGAAAGGAGAAATAG
ACAAATCTTCAATTACAGTTAAGACTCCAGCCCTTCTTTCTCAACAATTGATAGAACAACTAGGCTATAAGTCATCCAG
GATATAGAAAAACTCAGCACCATCAACCAACTGGATCTAATCAACACTTAGAGAACATTCCTTTCAATAACAGCAAAAT
ACACATTTTCCCCAAGTGTCTATAGAATTTATAACAATACAGATGATTAGGCCATGTAAAGAACCTCAACCAATTTCAA
AACAATTAAATCATACAGAGTGTTTGTTCTTTGACCACAGTGGAATCAAACCAGAAATCAATAAGAGAAAGATAATAGA
AAAATCTGTAAACATTTAGAAACTAAACAACAACAGACTTCTAAAAATCCATGGATTAAAGAGAAACTCTCAAGGGAAA
TAAAAAAAAGTTAAGCTTAACAAAAGTACAAATGCACTATAAAATTTGTGGGACACAACTAAAGCCATGCCAAGAAAAA
AATGTATAGTACCAAATACATACATTAAAAAAGAGAAAAAGACTCCATCAATAACCTAAACTTTTACCTCAAGAACCTA
GAAAAAAGAAGGTAAAATTAAACCCAAAGCACACAGAAGAAAAGAATTGGTTTTGTAGGCTGACTGGGGAAAAATAATT
TATACAACCTTGCTTCTGTTAAAAAAAAAAAACATGAGTTCAAAAAACACATTGTGGCCTTCAAAATGCCAATACCCTAT
TAAATTACCAGAAATTAAAATTAATAAATTGATTGATGGTTACTGTAATGATTAAGATAATGGTTACTTGTGGTGACCT
TTTTTCCAATCATAACCAAACATATCTCTGGAAATGAGTCACTAAGGATGATGCAGCATCTTTCTTTCTCTTTTGATTA
ATCAAAATTATATTAAATATATTTTATCTTATATTAAAGAACAGTTTAGTCATGAATTTAAGCTGGTGTTAGAGGATAG
CTAAGTTGCTTCTCATAGTCATTTCCTTACTTATGTAATGAAGAGCAGAAAAATATTTTTACCAGTGGTTCTCAACCTT
GGCTGGAAATCAGAATCACTTAGGGAGCTTAAAAATATACTGATGCCTGGGTCCCATCCAGCGAGATTCTGAATTGTTC
TATGGCAGAAATTCTCAAAATACAGTATTAGCCTCTCAGCAGCAGCAGCAGCACTTGGAAACTTGTTAGAAATGCAAAT
TCACAAGCCCCATCCCTGATCTAGCAATCTCTGTTTTAACAACTCCTTCAAGTGATTCTGAGGCAGCAGGTCTCAAGCT
TTAATGTGCATGCACATCTCCCAGGGAATCTTAGGAAAATACAGATTTTAATTTGTGGTCTGGATATTACACACTGTCA

Fig. 6.75

CAGATGCTAATACTGCTGGTAGCAAAAATATAATT GAATTACAAGGGTCCATAGGACATCTGGATATTTGCATTTTAA
AAAATTTTCCAAGTGGGAATGCAGCCAAGGTGAAAACAACTGGTCTAGATAGCTTTATGGTACACTGCCAATAGCCCAA
GCAATCTGAATGATCTCTGCTTGGTTTTCTGTACCTGAGGTTGTAGAGTCACTGAAGAGCACATACTTCTTGTTCTCTT
TAAAGTGATAATCCGGCTGGACATGGTGGCTCATGCCTGTGATCCCAGCACTTTGGGAGGCTGAGGCGGGTGGATCACT
TGAGGTCAGGAGTTCATGACCAGCCTGGCCAACATGGTGAAAACCTGTCTCTACTGAAAATACAAAAATTAGCTGGGCG
TGGTGGCACATGCCGGTAATCTCAGCTACTTGGGAGGCTGAGGCAGGAGAATCGCTTGAACCCGGGAGGTGGAAATTGC
AGTGAGTCGAGATTGCACCACTGCACTCTGCACTCCAGCCTGGGTAGCAGAGCAAGACTCCGTCTCAAAACAACAACAA
CAACAACAACAACAACAACGACAAGAACCAAACAAATAACAACAAAATAAAACCTAAAGTGATGATCACTGATTTTAAG
TGGCTCCTTAGTTGCCTAAGAATCCCAGTTGTGATGGTTTTATCCCTTATTGTCTAGAACTAATGTTGAACACCCTGCT
TTTTAACTTCATCTTGTTTTTCTCTACCCCCATCATCAATATTTGCCTGACTCACCATCTTTCAAGGTTTACCTCTTCA
TACTCAGCTAAAAATTAGCTGATGAGATGCACAAATAATTCCAGTGTATCAGGAGAGGATCAGCTTCCTCCCTTTTAAG
GTAACATGGATCCTTTCACCATCTCCTGATGCCCTGAGACCAATGTCTTGAGAGCATCACATCTTGTTTCATGCATTCT
GACTGGGCATGCTCATCTATTCCAGTGTTCCCAAGAAACACTCATGTATTGATCACTCCGTGGCCAGGCCAGATCTCTC
TCTGGCTTGTCACTGAGTGGACATTTTTTTTTGATTTCTCAAAGTCACCTCAAATTCAGTGTGCCCAGACTAGAACTC
ATCTTCCCTACCATGTCTGCGTCTCCTCCTGCATTCTCTGTTTCAGTGATAAGTAACTTGGGGGGCATTTTTGATTCTC
CTTCCCTCTTTTCCACCCCAAATGGAACTTGTTGTTAGGATCTGTGGATTCTATCACTCTTGATTCCACCTACTTTTCA
CCATTTTGCCTCTACTTCTCTGGTGCAGGTCTTCACCATCTCTTGCTTAATTGCTGCTACAGTGTCCTAACTAATTTCC
CTGCCTTTAGTCTGTCTGTCCATCTCTAATCCACTTTCCATATGGCAGTGAGAATGTTTATTCTTGCCACTTCTTAGAT
CTAAAACTCTTTAGTAGCTCTCCATTGCTCTCAGAATTGAGAGTCCTTATTATGACTTAAAAATTATTAATTATCTGGT
GCTTGCTCACCTTCCAAGGATCTTCTTTTCACCTTGAACTGGATGCATTTTCCGTATGTACCATTTTCTCTGTAGGTTC
TAAGCCTTTGAAGAGGTGATGCCTCTGCTTGGAGTGTCTTTCCATTCTCCCATTTGCCTAGTTCTTATTCTTTTTTTAT
TTGCTAAGACACTACCTCTGAATAGATGACTTCCTTGACCCTGCCTCTCTCAAGGGTGAGTTACATGCCCTCTTCTTAT
CCTTAGTGTTAAAATTACCACACTGACCTTCAGTTCCCTCTTTACTTGTTTATCTTCCTCAGTAGCTCCTTAAGAAGGG
ATTATCTTCTTCACTCTGCCCTTAGCATCAAGCCTGATGTCTCTATTATAGTCTGTGCTAAATAATTATTAATAAACAA
AATACCCAGTTAGTGTAAGGAAAGGAACCTGCCATGGTAAATAAGTGTGAGAGAGGTTTTGAGGTAGTCGTATAACTGT
TAGAAATACACAAATCACATTATAGATAGTGGCTTCTCTGTTTATCACAGTGCTCAGTTTCTTGTTCCAGGATATTTAG
AAAAAGTATACCTAAAATAAGCGGAGAAGTCATTAGGTTGAATGACATATTCCCTTCTGCCGAGGTATTATAATATTTAG
TTTTAAAGGGCCTCAGTTAACAATTAAATTCTTTATATCCTTGCAGCAGTTCTTTTTTTCTAGGTTTCATTTCAATATAAT
GAACTAGATGAGGATTTTTGTCTAACTGATACAATTCCACGTTCTGAGTCCTTGCCTTCTCTCTCTTTCAGTTTCCTTCCA
TTGTATGTGGTAGATTGCCCAGTCTATACCTAATCAGCACTAGGTTGGAGAAGAATAAACTGCCTTCATGTTTCTGGG
TGGCAGTCTTCTCTGTTGAGTGATAAACCAATGCCATTCTAAAAGATCTGCAGACCTGTGTGATCTCTTCATGTTGTGGAGC
GCTGTAAGAACTAACTTTGATGGAAACACCAGTTTTAAAAGATTGCAGTTCATTTCCTACATGCATATTTCTTCGAGGGA
AATTTTGTAACATCAACTGAAGTTTACTAAATGAACAGCAAATGAATAAGTATACGGGTTGATGACAAACATTTGCCTAGGGA
CAACATCTCTAGGGCCTTTGCCAATGTTTCACTAGAATTTTGGACCCTCAAGGTCATCTTAGTTTTACCACACTCCAGCC
GATTTGTGTTGTATGGGGTCATCCTCTTTAGCAATCTGCAGAGCATAATTTTAATGCTGTCTCCCAGGTGGAGGGTTGA
TGATCCCTTTATAGACCACATTCTAGCACAAATTAATGTCACTGTTTCTTCTGTAGGAGGAGCCTGGCACACTGAATAC
CAGTGGAGTCTTGCTCTCTAGGCTTATCTTGGGAGCTAGTATGCTTATTCTTGTTTCTGTCCCTTTCCTTATGCACTGC
CACAAAGGAATTGCTCTAGAATCCATTTCTTCTTCCTCATCTCCTCCGTTTCTTTGAATCTTATTTTGTAAAGTTCAAG
CTTCATTTCCTGCAATTAGGGAATAGATCATGGTCTCTAGGTGCTTTGTCATTCTCAATACTGTGTTTGTAAAGTTCAAG
ATTACTTCATGTTCCTTTGGAGCAGAGGTTGTATCTTTTACTTTATATGGAAAAGTATGGCTTAGTGCCATTCTTTTGA
CAGACTAAGGCAATTTAAATGCTGTATTTCATTTGAAATGACACATGGAGCTGTTTTTACCACATTTCTCACTGTCTTA
TCTGAAAACCAGATTAGCGCAGGGAAGTCTTGGAGCTATTAAAACCTTCTCCTCATATTTTCTCTGGCTTTCAGAATGA
CTATATAGGGCCTTTTCTTTGGTGGGGATTACACCTCACTGGCTCTCATGTAACCAGTCAATTTTCCTCTCACTTATTA
TGGGACTGTGAAAGAAAGAATTAGAAGGTGAAATTATAGGATTAATGTTAAAAGGAATTAGTTAGCTTCTTTGTTCCTT
TAATTTCCAGTTACAAGAAAAGAATTAGATCAATTACATTTCTATGGGCTTGATCTCATGTAATAGTAGCTATTACCAA
CAAAAATATAACCAAATTGGACTTTTAAGAATGTTCACAGCAGCATTGTTTATAATGGCAAAACATTAGTATCAACACA
GGTGTCCAACCACAGGAAAACAGTTAGATAAAATGTAATTAAATCCTTATGATAAAATGTGACCATTAAAGTTGCTGTT
TTTGAAGAATTTTTAATGTGTGAAAATGTGAAAATGTGCTGATGGTATCATCAGCACCTAGTACCAGTGCCTGGCATGT
GAAAACAGCTTCCAATAAATACATATGTAATAGCTTTATCATACCAGGAAAGGTGGCTATAGAAAATAATAGTAACCTC
GTACTAAAATGAAGAGAACATCAACTTCCTCTCTGCTAGATGGCCACTATCTGCATCTTTTATTCTCTTGAGTATTCTG
GAATCAGTAAAAATGGTGTTTTCAAAGAATCTTATCAGAAATTCAGCTACATCTTTGCTTGGCAATCTGAAGTTTTTGG
AAAGAACGTATTTCAATAATAAAGAATGACATAGAAATTTTTACATGGTAAATATTTAAATAAAATATGACATTTTAAA
TTTAAGTCCAGGGTTACTGTTTCAGAGCTGAATTCAGACATCTGAATGATAAGCGGAGATTTCATTGAGAAAATCTCTA
CTTTATCATTCCTACTGGCTTTACTATGTCATGGAGAGCTCAAAATGTCATCACTGAATTAGTTTCTAGCTGACTTCC
TCCTGGTGGTGTTTTATATGTTAGTGACATTGATTTCTGGACTTTTCTTTTTCCCATAGGTCTTACCTCATTTATTTGA
AATAGAATTGATTAAAATAACCTATAGAAATAAAAAGCAAAATAAAACAATAGAGATAAAGATGAAAAATGTGGTATAA
TTTTTAAAAATTACCATTCTAGGTATATAGTCATAATTATGAAATATTATTCTGGTCTGAATGATACAAACTGCTCAGC
TTTTATGCTTTAGAAGATATCATTATTAATAACTAATTTATTAGATTTGAACATTCAAGAGCAAAGAGATGTTACACCA
ACGGGTTCCCTTGTCTCCTACTTTCTAGTTTATGTAACTGTAAATGAGTACCCTAGATTATCAGTTGCTTTTTGGGGAT
ATGTTTTGTTATGATAAAAAGAAGCAGTTCGATCATGACATTTGCAGTTATCTTTCTTGCAGTGACCTTCTAGAAATGA

Fig. 6.76

CTCTTCACCTTCCTATCTCTTTCCCTGTCTTGGTTCATGGTATACTCATTCTTTCAATTGTGAAAGTAGAAAGTCAGCT
GACTCTTTGATTCTTCTGTCTCCCTCTGAACCACTGACTTATGGCAATTTCCCTTTAGCATGTGTTCCGTATCTGGACC
TTCATGTTCAGTCTCACTGTCTCTCCCCTGGTTCAAGTTCTCAGATAAAAACCGTTTGCCTTTAGTCTTCCCAAGCCTT
TAGTCTTCCCCATTTCAATTCATCTCCTGTACTATCATAAGATAAATATTGATTTTGCTCTTTTTGTTTCTGCTTCCAG
CTTTATTAAGATGTAAATGACAAATAAATATTGTGTATACTGATGGTATAAACGTGATGTTGTAATACATGTATACATT
GTGAAATGATTAAACCAAGCAAATCAATATATTCATCATCTTACATATGTATAACTTTTTTGTGGTAAGAACATTTGAG
ATCTACTCTTTTAGCAGTTTTTAAGTGTCCAATACATTTTATTAATTGCAGTCACCATGGTGTACAATAGATCCCTAGT
TCTGGAGATTTTGCTATTTTCTTGCCCAAAAATTGTTAGTAGCTATTACCAACAAAAATATAACCAAATTGGTCTTTTA
AGAATGTTCACAGCAGCATTGTTTATAATGGCAAAACATTAGTATCAACACAGGTGTCCAACCACAGGAAAACAGTTAG
ATAAAATGTAATTAAATCCCTATGATAAAATGTGACCATTAAAGTTGCTGTTTTTGAAGAATTTTTAATGTGTGAAAAT
GTGGAATGTAGCAGAGCCTAATACCATATAAATACAAAATACAAGAAACATTTATGTTGTTTTTTGTATTTTTTTGAGA
CAGAGTCTTGCTCTGTTGCCCAGGCTGGAGTGCAGTGGCACGATTTCGGCTCACTGCAACCTCTGCCTCCCGGGTTCAA
GCGATTCTCCTACCTCGGCCTCCCGAGTAGCTGGGACTACAGGCATGTGCCACCACGCCCAGCTAATTTTTTAAAATAT
TTTTAGTAGAGATGGGTTTCACCATGTTGGCCAGGCTGGTCTTGAACTCCTGACTTCAGGTGATCCGCCCGCCTCGGCC
TCCCAAAGTGCTGGAATTACAGGTGTGAGCCACCGCGCCCGGCCAAGAAATATTTATGTATATATGAATGTTAGCAGTG
GTTATTTCTGAGTGGCTCAATAACAGCAGATTTTTCTTTTTGCCTACACTTTTCAATTTTTCTACAATAAATTGCATTG
TTTTTATAATCAGAAAAACTTCCTCTAATGATTGGTATCTGTAAGAAAGCTTGTAAGTTATTTAGTTTAGTTGGTCTTA
ATATATTTTTGGATCATGGGCCTCTTTGAGGATCTGACAAATGACATGGAACTTCTCTCAGAAAAATGAACATCTGCCC
ATAGACACAAAATATGGCATAGAACTTCAGTAGGATTTTGGGCCTCAGATCAAAGAGCTTTTTGATAGTAAGCACAATG
CTCTCATTTAAGAGATGATGGTGGACCCAGAGGATCTGCCTGCTCTCCCACAGGAGGCTGGGAGCAGAGGCAAAACTAA
TTCTTAGTACTTTAAGCTTTTGCCTTGAAACTAGGCTGTCCAGGAGACTTGAGATCACTTTGCAATGCCCTTCATTATG
TGCTACTGAGGTACCTTCTGTAAGTTGCTAAGCCTGTGAGGTAGCCGTCCACACCCGAAGAGGGTCCTCCCTATGGTGG
TTACTAATGTTATTCTTTGTAGTAGTGCCAAAGCTTTTCCTTTTGGTAAAGATAAGCTTTTATTGGAGAGACCTAGGGG
AGTGGCTTCTAAGTCAGTGGTGGGTCCTAGAAGTAAGCAAATAAAATGTGCGCCTCCCATTACTGAATTTTGTATCTAT
TACTTTCTTAAACATTTCCTCTCAGATTTGATGATTTTGTTGTAAACAGGCATGATGAAGGCTTTTTTTCTTGAGAATG
TTTGTTTTCTTCCATCATCTGGCAGTTTTCCTTATATGACCTTGACTATGGTGGTAACAGGAATGAGGCATCTGTCTGC
TCTAGAATTTTTCATTGTGCTTGGTGCTGTAGCGGTTCTCTCTACCTGGTGCCTGCACAGCCTGCATGATTAGGGCTTG
GAAAGGTCTCATTTCCTCTGGTTTTAAGTGATTTTGTTCTTTCATAGCCTTAAGTTAGCTAGTAAGTGAGGGAAAAGTA
CCACTACCAGCACCCCAGAGCCAGCCTTTGACTGGGAATGAACGTGGAAGAGTGCCCTTTCTTTGTCAGAAACTCCTAC
AGCGCCCTGATAAATCTTGCCACAGACAGCAGATTTTACAAATAAAGGAGAAGTGTTTTCTTTGGTGCAAAAAAGACAG
CAAACACAGATCTGGAAACAGCTGTCTGATACTTTTTTTGCAAGTTGTTAAGCCCTCTACAGTCTAATCTCTGTGGAGA
GCCCTGAATCAAAACAGAGGATTGAATCCCTGAATTGAGCAGAGGAATTGTGGAAAAGGTAAGGAAATGAACTTTTTTG
ATGCCTCCAAGTACCAGCACTGGCCAAGGTGCTTTCATAGATGTAATATTGAATCCTAGGAAAACCCTGTGAAGTAGGT
GGTGGTGGTCTTATTTTTACAGGTGAGGAAACTGAAGCCCAAAGCGTATTTTGCTGAAGTATACAGTTAGAGACAAAAC
TGAGTATGTCTGCTTCCAGTCAAGCTCTTTCTCATCTATAACAAATAGGTTGTATGACAGCACATGGTTTTGAAGTGCT
CTAATTATCTTTTATGTGTATGTGTTTCAAATATTTTTATTTATATACTATGATCTCATTAATAAAATTAGAAAATACA
GAAAGATATAAACACACACACAACCCTCACATGAAACAGTTCTACTCCAACCACAGCCGCTTGTAGACCCTGATAGATA
ATAACTGGCCCTGATGAAGATTTCCTCTCCTCTCTCATCTCTTTGCTTATATGCTGTTGTATATTTTCCAATCCTTTCC
TCCCAATCATATTTCTAATGTAAATGTAACGGAAACACACGGACAGTTTTACGTCCTTATTCTATATGTATTGGCGATA
ACTTTTTGCATAGCGCTTCATTCTGCACATAGTTTAGTGTTCCCCCACTGTCATCTTCATAAGATCTGCCTGATGAGAG
GAAAAGCAGAAAGAGCACCATAGTCCCTGAACAATCTGGGCAGAAACACATGGGTTTGGGATAATACACGTGCACTTTT
CTTCACTCCTCTACATCTGCTCAAGATGAAAATGGTTGGGACATTATCATTTTGTCCATAGCACAGGAGAACATAGTTA
AGTCATTTGGTTGAGCCTGGAATGCAAGAGAAAATGTGTCTACTGACATTCTATTTCCACTTCACCGATAGCCCTGAGA
AGACAGAAAGATGGGTATAACTTGGGTGTCTTCCTCCTGCTCTCTTAGAAATAAACTCTTGAAACTTATTGACTAGATT
GTATATCCACCTAGAATTGGGCCAGAGTGAAGACTAATGCCTACAGTATGCACACCCATGTTTGGGTGCTGTCAGAGCT
CAGGAAACAGAAGCCTGGAGATTGCCTAGTCTCCTGCCCTTTGCAGATTACCAGCAAGCATCCTCTCAGGCACAGACTG
CCCAAGGGTGAAGCAGCAGCAGCCTGGAGAAGCTGCCAATGGTAATAGGATGCCAAGAAAGAAAAGTGAGCAAATTAGA
AAGATGCCCACCAGCACTTATCTATTTGGAACCCAATCTTTTCTTTCTCTACAAAAATTTTAGATTGCCAGACTCTTGA
ACTTCAAGGTTTCCTTCTTTATAAAAATTATATTAAAAAAGTACTCTCATTCCACTATCTATGTCTCTCCAGAGCCTGC
TTTCATGGGGCTTTCCAATATCCTGCTGTGGGGAAGCAAACTGTTTGCACTTCTTGCAAGAGATTTAACTTATTTAATC
AGTTTCCCTCTCTCTCTTTCTCCCTTGCATTTACTGATGATAAGATTGTGTTCAGGGTAGAAATTTGGCTGCCTGTTTG
AGTGACAACAGCGGACCCAGCCCTTGTAAATGTCTGCTCCTTCTTCCCGCTGCATCTAGTTTCCTGCCTTCTGCCAGGT
CTCAGCAAGCCCTGTGAGGCAAAGCACCTTCTTCCTTCTACTGTGGACAGCTGCTTCTCCCAAGCTGTCTGCCATCTCA
GGAGGGACCAACGCTCTTTGCAGTTCTGTAGCTTCTGTCCTGTTCTTGTGAACTTATGTTCACTAATGTAAATGGGGCT
TTATGTCTTTATTGACTTTGTAGTGAATACAATTGTCAGAGAGGCTGCTTCAAAGAATCACCTTGCTCTCCTCTGCCCT
GACTCGGGGCTCAGCTTGGCAGGAGGTGTGATGTCTCAGAGCAAGTACAGCATTTTTTGAAGGAGCAAGGTGTTAATGG
CAGGTGACTCTGGCCCCTTTTATGTGCTTGAGCTGTTTTGCCAGGTACAGAGTGGGAGTGGAACAGAAAAAGGGTTTTT
TCTAGTCTAGGGTCCCACCAGCTAAGGCCTCCTGATTGAGCCATCTGTAATCCCAGGGTGGACCTTGAGGCAGCCTATA
AATCATTCTCTGCTCTGCCACTGTGTCAGGTTAAGGCTTGGAATTAAGGTTCCAAGAGAGGTAAAAGGTAAAACCAAGA
GCTCATCAGACAGCCTGACCACAAATTTCCCTCTCCATTGTGCTCCTGTGGGTGAGGTCTCCTAGCCAAATGACTTTCC

Fig. 6.77

TTATCTTGAGGACCAGGCCCAGTATCTGCTTATCCCTGAGGAGTGGGTTTTGGTTCCCTCACAGCCTGTGGAATTATTC
AAACAAGCCAGTCACATCCTCTTGTGGGGACCAGGGCTACCTTGCCCTTCTGTTACTTCAAAACCAGCCTCACATAGGC
CCTGCCTGTTCACCTTTCCTGAGTGTGGCCCCTGTGTGGCCTGTGTGGGGTGCATTGTCCTCCCCTGGGCTGTGAGTAG
ATATGACTAGCGAACTGCTATTAATCTCCTCTGTTAAGGTTGAGTGTCATGTGGTTGGCCATCCCCATATTTCTAGGGT
GGGAACTCCTCCCTCACCAATGGGGTAAAGAAGACACTGCATTCAGCTTTTCTAGCCTCCTAGCATGTATAACTATATT
TCCACTTTTCAACCACTTGCCCTCTCTCGTGTAATACACTACAAAGAGAAGGAAACATGCCTGTAATTTTCATCATGAT
ATCCTTGGTGTCCAGCACAGTGTTCCCTGGCACTTGATAAATATCTGTTGGATAAATGAATGAGTGAATTCCAAGGGTT
CTTTCTGAGTAAAGATTCCACTAAATAGTTTCTCCTCTCACTTGCAAAATGTTGTCACTCCATAATCAGGGATGGAATG
AGGGGTGTGAGCAGGGTGTGCACGTCACCTCTAACTTCTCCAGGTTCTTCCAACCTCAGAGGTGTCCCAAGCAAGCCAA
AGAGAATAACAGATCCTTAGGATGTATCCCACACCCCCAGTTCAGTGCCATCTCAGTGTTAGATTGATGTACTTTTCTT
GAGATAAACATTGACAGATGTCGCTGAATTTGGCAACCAACTGTACTTCACATCTTCTGAGACATTCTAGTCCACTTAC
CCAGTACATGTGAAAGGACTTTAGTGCCTCCCTCTTTTGTTCTCTGGGCTATCTTCTCCAATTCTGATTTGTTGATGTA
GATGGCTGTTACCAGCAACAATGAGAGCGTGGGGCCTGGGGAGGCAGAGAGCTTTCATTCTAGTGTTTTTGTGATTGTT
TTGGCTATAGCTAGGCCAAGGTACTGTCCTATTCTGTTTGTATTGCAGTCAAATTAATCAACAGGCATTTTTTTCTCAG
CCATCTTCAAGTCGTGTCAGGAAAAATTTGGCCTACATGAGGTTTAGGAAACTATCTTTTATTTCCCTTTATTTTCATG
AACATTTGAGCTTGAGGAGAATGTGAGCATTTTTCAGATCATTGGGTCTTATAGTTTCAGGCTTCATATTTTGTGCATT
CCCACTTCTAAAGCTTTGTTTTCATATATTTGCCCATTCCTCCAATCTAAGTCTCACCATTTAAAAAGTTAAGTTCACA
TCTGGTTTCTGGGGAATTGTTGCCTCATTTATCTTTTTGTCTCCTTTTCAGAAATCCCTTTTAGTTTATTATTTATTTT
ATTATTTTTATTTTAGTTTATTATTTTTTCACATGTAGTGTCACTGGTATTTATTATTTTTAGTTTATTATTTATTTT
ATGTAGTGATATTATTTTTATTTAGTTTATTATTTTTTCACATGTAGTGTCACTGGTATTAATTTTACTAATTTTTTCAC
TCTCAAAGCCAAGGACTTTGAGGAATTTTCTTTTCTTTCCAGGGTGCCTTATACAGTGCTCTGCTCATAATTTTTGCT
ATTTTTCATAATAGGTTTTCATTGCTTGATTTTTTGATAGCAGGAACCAGGTAGGTATGCCTCTATAATAGGTGTTT
GTTCATAGGAGACAAAATAACAAAACTGGTGTCAGTTTGTTTGAGCTTACATTAAACGGGTTCACAAGGGTGAATGTT
TCTGTGTATTGAAGCAACAGAAACCATGAAGCATTTTATTGCAAGAGCAATCAGGCAACTTCCCAGATGTTGCTAAACT
CTGCTTTAACTGTTGTGTAGAGCTAGTTTTAACTGCATCTCCCACTGCTACTGGAGACAATGATTCTAGAGATGTTACT
AATTGTCACTTGTTCTTTGCCTAGATTTCTTCTCTGCTCCTTGTGGCGTCACCCAGCCGCTAGACGGGCAATGGATTAG
AATTTACATGGAGGCTGTGGTCACGGTTGTCTCAGGTGTTAAGGAACAAAGAAAAAGAGGTGCAGAAAGAATAAATCAA
ATCATTATTTTAAAATGTCTTAGTTTCCAACCAGGCAATGGAATTTAAGGGAGATTCCCTGACGGTTACCCTAAGACAT
CTGCTTTGGAGCCCTTAGCAGAACTCTCTCTGTGGGATGATTGGTCCTAAGCCTCATTAACAGAGGCTTTGCGGCTCCA
TTGGAGGTTGGTGCAGCACAGGTGGGCGTTAGCACAGAGGTTTATAGGACCAAACCCACTTCAGCAACCAGCACTAATT
GGCTCCCCAGGGAAGTCCCATGAGAAGCTGTCAATCGTGAAGACTGAGTTTTTGTTTATAATATGTAGTGATTTCTCCT
TTGCTGCTCTTTTTCCTCCCCTATCCAAACTGCCTTTCCTTCTTGCACAAATAGGTGGTGGTTCCCAAAGTACAGATAA
TTAGAAAGTTGAGGCAAACCTTACTTTGATTCCAACTGCATTTTTCTCCACTCTCTATTCTCCCTAACCCTTCCCCTAT
CCCCACCCTTAGTGTGAAACAATACCCTGTCATATGGGAGGAACCCCTCGCTGAGGTTGTGCTGACAAAGCTAGAAAGTA
GTGTTGAAAAATAAATGTACATCATCAGTGCATTTTATGAAGTGATTTCTAGTTTCTGTAATGTGACTTCAATTATGCT
GAAAATGGAGATCTTAGTCTCATCACGTACTTTTGTTAAATCATTGTATTTTAAGGTTAAGTCACAGGGCAGGAAACAC
CTTCTCTGCAGGATATTGGGTGTAAAATAAAGAGAGGCTTTCTGTGTCCTGGGAATGTTCTGCTAAGAAGACAGTGATG
ATAATAGTTACCACTGAATAAGTACTGACATGTGAGGAACTACCAGGATCCCTGCTTTACAGGAAGAAGCCGAGGCTCA
GAAGTACACTTGTCTAAGGTCCCAGAACAAGTGTAAGTGTCAGGATTTGAACTTAAGTTTGCCTGATTCCAAAAGTTTC
TGTTCTTAAAAGCTGTGTTTTGCTCATGTTTTGATTTATGTTTGCCCAAGGTCTTTTGGTCCAACTACAAAAATAATTT
AAATTAGTTATCAGACCAAGCATTCTTTCCAGTGTTTGAGGGACGGGAGCAACTCAGGTGTAGTTGACTAACCATTCTA
CATTGGTGTTATTTCGTGGGGTCAATTTCAGGGCCGTAATTCAGTCATAGTTATTGCCAAATCCAGGTGATAGTAGGCT
TTGTGGGTGGTGAGGGTAGATTAGAAGGACTTTAGCTTGCTTATAATCTCCCCTGTTCTTTCTTACGCTGAGGTAGAAG
GTTGGTGAAGAGACTAGAAAGACTTGGGGGTAAGTTCTCAAGTATTACACAAACTGAAATTTGGTTCTGTCAACTGCCT
AGTTATGGGACATGATTAGTGCCAACAGGTCACAGGGGGATTTCACTTCCTCTGGTCAATATGATGCAGGATACAGGGT
TGGGGGATGTTCAAGGAAATAACAAACTGCAGAAACATCATTTTTATCTGTTTCATGCACACTTGTGGCCCAGGAGATT
GGTAATTTCTTCTTTCTGATAATACTTAATTGAAGAGACTTTTATTTTTGACTAGTACTTACAGGAGGACTTAAGCCCG
ATCAATGCAAATTGATTTTTTTAAAAAATCATTAAAATTTAAACCTTGGGCATTATCTTTAGGTTGTAAGTGCTAAACT
CAGCCCACCTCTTTCTTTCATTATGAGCAAAAGTAATCAAAGACCATCAGTGCTAATTAATTCAGATAAGCCAAAAACA
TACATATTCTTATTTAAATGAAAGAAATGTTAGTGTTGTGATTGTTTTTATATTATTTTAATTAAAAGTTAAATGGAA
TAGAAAGGTACCAATTTAATTACATATTGAAATTCCTCTAAAGCCTTCTCAGAAGTACTTCCTTTTAGTTGCAGATTAC
AAAAAGAGATGTAGGGGGAAGATATAAGGGAGAAGGAGAATCAGTTCAAATTGTTTTCAGGTCTGATTTGGCGTAGGAA
AATTGATTCTGAAAATCTAAGTTTGGAAAATTAACTAAAGCAACTCTTCTCAAACATAACCTGGTCAGTGATTACCATC
CAAACATTCAAGGTTGTTTCTAATTTGATCAAGAAATGGTATGGAACAATGCACATGTAATCTAAACCATATTTTAGCT
GTAATTTTTACCTTCTCCTATTGTATCCTATGTTCAATAAAATAAATATCTCTAGCAAAGAATTCAATATAATAATGTT
TCCAGTCTTCCTTCATTTTTATGTCTTCCCATAGGGTAGACAAAATTCCAGTAAACAATAAAATGATCAAAATATGAGA
AAAATAAGGAGAATGAGAGACAGTCTCTGGGTGGCATATAAACAGGATGGCCATCCTCTGACTCACAGGCTGTCTTGTA
AGGTTGGCAATGACTTTGAAATTTTATCAAGTCTATCTCTTTTCCTTTTGGCAAGACTATTCTTATACCTTTCCCAGTA
GATGTTAATCTATCCTGTTTTTAAATGAAACTTCTAGTACAGAAGACACATGGTCCCTTAGGAACTCATTGTGAAATTA
GAGGGTTTTCAGAGAAGGACTCTGTTGTTTATTTTGATTGTTCATCTTCTCCATAGGGATGATCAACTTTATATAAACA

Fig. 6.78

GCGCTGCATCCATGTAAAGTCATTTTACATGGCACTTGAGCAGATTGACAGATATTTAGAGAACATGACCGCCTTAGGG
AACAATTAGTTCAGTCCCTTAATTGTGACTGGTTGGTCTTCTCTCTTCCAGATTGAGATTATAAGTTTCTTTTATTATA
AATTCATGTTGTGTTGTTGACTTATATTCACTTTAGACCTTCATATTTTTTGCCTACTCTTTGCATTGCTAGTATTCCC
CTGCTCTGTGTTAAAATATGCTGGTTCTGTCAGTTAATATCCAAAATATGTGATTTTTTAAAAAATAAAAAGTGTGAC
AGGGTCTATGATGTATAGGACATAGGATTAGCATGGATATGACTCAGTATCCTGGGCTCCAACCATGATTCTGTCACAG
CTACTGGTATGACTTTGGGCGGGTAATTTACTGAGCTCAGAGGCCTCTGAGCCTCAGTTTATCACTATCAGATGTGTGG
CCAGATTCAGAGCAGCTTTTTCCAATGGGTTTTCCATGGGATGTTAACAGATATAACATGAAAAATGGTCCCATTTAAA
AATAGGTGGTGGTGGTTGGGAGGGGATGGGGAGGCAAAGATTAAATGAACCTAAATAGATTTCTTTGCTGAAGCATGTG
AGTCTTTCACATATTTTGGCTTAAAAAAAAAAGAATTGTAAATCTTCAGATCTTTAAGAGGCGTTTCCTGAAAGTATAC
AACTATAGTTCCTTTTTTTTTCTCTTTTTAATGCTTTAGTGCCGCTAACCCTTGACCAGGCTCATCTGCAAAGCAGAAG
TAGCCACTTTCCTTGGTGCCCATCCCAGAAATACAGTAAAACACCCAGGAGGTCACTCAGGGCTCTTGACTGTGGATGA
GTTTATGCATTCCACGTGTACCTTTCTGCATCATGAACTCTTTGAGGGCAGGAGCCTTTCCTTATTTGCCTTGTGTAAA
GAGGGTCTATTCCTGTGCTTATACCTGGAAGATGTGTAGAATGAGTCAAACTGTCCATAAGTGGAAGGCACTGCCTTGA
AAGTTTTCAGCTTCCCTATCACAGAAAATGTTATTATAGAGTGAATTTTTGAAATGAGTGGAAACTGTAGTCAAGATGA
TATCTATGATCAGGAATCTGTGAGTTTCTAAGGTTATAAAGATAACATAAGAATAAAATTACTCATAGATAACCACAGG
TAGGTTAAAAAAGGGCAGAGTACAGCTTTGCAGGTGGTTCTTACTGGCTTCTTTCTTTGGTCTCGATAAATTTGCCTAT
TACCTTGATTCTGTCTGATAATGTGAAATTATTAATTGGAGAAGTTTGTCCAGATTACCAATATATGAGGAATGGACAA
AATGCCACGACATTTTCTTCATCGTTCACCTTGTACAATGCCACTGTGTACATACAAATTCAATTCATTAAATTTATGA
TGAGTTTGTTTTTCTACTTTGCTGTTCCATTACCTGTTGTATTTCTTATAAGCTTCTGGAAAGCATAAAATATGTCTTA
TATACATTTATTTCTCCATTGATACCTAGTGTTTTATAATTATAGGAAGAACTCAATAAATGTTGAAAAAATAAAAAGAT
GACTATAGTGGCTCAGACATTTTTTCCAATTTAGCATCTGAAGATAGAGATAGTAAATATGATGAGCTTATATGTAGCA
GAAATTAATGTTTTGAAAGTAGGGGAAAAAACCCTATCATTTCACTACCAAAGAATAGCCATTGTTAAGACTTCAGGTT
ATTTCTCTCTAGACATATTTCCTGCAAAGATAATTTTTATGTATAGTTGTAATCATATTGTATATATAATTTTGTGTCC
TGATTTTTTCATTTGAAACTATGTTATAGAAAGTGTTTATGATAGTTATATTTGCTCTTTTGTATATAGGAAATATTT
TTACAATAAAATTTTTAAAATCATAGAAGTCTTAAGTAATATAGTTTTCACTAACAGAATTTTTAATTGTTTCTGCATG
GTTTCCTTAAACATTTATTATTTTATTATTATGTTTCTTATGAGGTTTTGCCTTCATTATTTATTTATTTATATGCAAG
AGCTGGAGTAGACATTTTTAAACAGGAATATTTTTATATTTTTCCTTTTGAATATTTTCAAAGCATCAAACACTTATTG
GCAAACTGCTTTTCAAAAGTATGTGTCAATATTTGCTATATCAAACAATGTATGAACATTCCAAATTCATTGCAAGTTC
ACCAGCAAAGAACATTTTTTTTACTTTTTAAAATATTGACTGATTTTAATGGGAAAATGCTTTATTATTTTGTTTAATT
TCTGAGGGTATTTTTTGGTCTTATTACTGAGGTCAAATCTTTTCTCATACTTGTCATTTTTGTTCTTTTGTGAATGGTC
CATTTATGTCTTTCTATTTATTTTTCTTATTGAATTGTATGAATGCTTCATTCCATAAAACATGCTATTTCCTGCAGGG
ACTGTATATTCACACACCACTGCATTGCTGATGCCCAAGGATAGTGTATGAAACAGGGTAAAATCACCATCGGCAGGCA
GCTGGAGTAGCTTGTTCTGTGGACTGTTTTGCAATGCAATAATGAGGAGGGAGCTGAGTTACTAAACAGTCCCCTCTTT
CTGTTAGTTCATTATTGCAAAAGCAAGGCCTGGCGAGTGAGGTGTGTGTGGCAGGCTTCATTCTTCCCTTTGTCTCAAC
TATTATTAGATAGGTCCAGAAATTGCTGGTACGTTGGGGCTGTGGGCACATTTGGTTTATGTTGCTTTCCTAGATGTTA
AGTGTCGCAACAGCTCGCTATGGTTTGCTCCTCACTTGAGCAAATTGATAACAGCTTGTCTGTGACTCCTTAAGAATAA
TGAGAATCAACCTCATTTTAGGAGAGGGGACAGATTGTGTCTGTACTTGGCATCCTTCTGCAGACATCCTTCTGCAGCT
GGGATTGCTTGAGACACTTCACAGAGTTGAGGACTCATATTGACAGAGAAATGTCCATTTTGTCTGAGGAGCTGCTGAA
TCTGTCAGCATCTACTGGCAGAAGTGCTTTCTCTAGCATGACTTCACCTCTCAAATCCCTGGATGTAACAAAAGTCAAT
ATAAGATCTCTGCAGTCTATTTCAGTCCTTTGTCATTTTATCAGATAACTAAATGCTAAATGCCTTCAGATACATCATA
AGCTAAGGGCTCCTTTGAAAACAGGACAGACACTTTACAAACTACATCAAAGCATGCAGATAGTTTTATTTTTAATACT
TTTTTTGTCTTGCATGAAATACTTGAAAATAGTTCAGATATCGCCGCTGCCACAAAAATTGTCCTATAGCAAAGAAAAT
AATAGCTCTTTTACCTTAATAGCGAAAGTTTTGTGTAGAAATGATTTGAGGATAGAAGAGGTTTTTCCAAATATGATTT
TGTTGTGTTTTCTTTTTTTCTCTTTCTCTCTTTCTTTTCTTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTCTTTCTT
TCTTTCATTCATTCTTTCTTTCTTTCTTTTTCTTTCTTTGACTCTATAATAACTTCTTATTACATGCAGAAGTAAATCT
TAATTCTTTTTGGCCATCTTTTCTGTGTGAATTTTATTTTATTTTAAAAATAGCTTTATTGAGATATCCTTGACATATA
CAAATTGTATATATTTAAAGTGTACAACTTGATGTTTTATTCTATGTATTTATTATGAAATGATTACATTCCAGCTAAT
TAACATATCTATCACTTCTACATAGTTACCATGTGGGTGCATGTGTGTATGTGTGTGTAGATATACGTATGTGAAATTC
AACATGAATTTTGGATTCTATAATATTGTTAAACACTTTAGAAATAAACTTTCTTGTCTCTACCTCAGTATGTTTGCAC
ATACATTCTTCCCAAGAAGCAAACCCATTCTTGTTTGTCAGTGGAGGCTTTACTTCTTTCGACATTTGCCTCCTCAATT
TTCTTCTTCAGTTCTGTCTCCTCCACATGATGTCAGCTCACATATTCAAAATATGTTGCCTTACAAATCCTCTTGGGTA
TGTCTATGTATTATTTCCTTAAGGTAGGACTAATTTTACATTCTTTATGTTTTCCAGTGTGTTGACTAGAAATTTTTTT
TATGCAATGTGTTTCTAATAAATGCAGTTGTTTGATTCTCTTTCGTTCTAAAACATTCATGAGATTCAAATTGTGATCA
TATTTCCAGGTAATTGAAGGACACATGAGTTTAGGGTTATTGATTTCATATTTTAAACAAAATCACAAATTAAGGATTT
ATAAAATAAAATAGATTGTGATTATATTTTTTGTTTGTCCCTTAATCTTTTAAATAAATAAGTGGTTTCACAAAATTTTC
TTTTAAAGATATTTTAAAACCTCTGATGAGGCCATGCTTAAAAATAATTAAACCCATTATAAAGTAGTGGTACTGATGG
TGATGTTTGAAGTAATATCTTTGAGTTTGGGGATTATGTGATTTTGGAACTCTGCATGTAGACCAACTTCTGGCAACAG
TTTGGAATAGAGAGGACAACTTTGGCCACCTGGAGCAACAGCAAAATCTGATGGTGATAACTCTCAAGAGAGTCCATAT
AAGGCTTAGTAAAGATACATGGAGGAATTGTATGCATCTGATTTTTATTTGTAAAATTAAATTCTGAGATTCCAAATGC
AATACTGAAATTGTGAGCTCTTTCTTTGACAACAAATGTGTCCAGGGAGATGATGAGCTTGTTAAACATCAAGGTTATA

Fig. 6.79

ATTCAAATGACACCATCAAGTTGAAGAAATGTAAAAAGATATACAGACACAATGTTTGAGGAATCATTTGCCAGTGTTA
CATTGGAAAATATGTTGCATAGTGTTTTCTTAAGCTTATTCCTTTGTTGTTGTTGTTGTTC GTTGTGGAGATAGAGT
CTCACTATGTTTCCCAGGCTGGTCTCAAACTCCTGGAGCTAAGTGATCTTCCCACCTTGGATTAAAGGTGTGAGCCACT
GCACCTGGCCATACTTACTTTTGAGTAGTTGGTGATAATGATGATGTTGATAGAGAGTAATTAAGTATGAATGAGTTAT
TTACTTCTTATAACAATATACTATGTTATACTTATGTCCATTTATAAATGGGAAAATTGAGGCTCATAGAGAAGATGTG
AGTTGCCCTAGGTTATATAGCTAGTAAGCTGCAGTTAGGATTTGAACCCACTTCTCACTGAGTCCAAAGACCAATATTT
TGAGATACTGAAAAGTTTTTTAGGATATAATAAATGAGTCATGAATAGTTACTGTGACATATAAAAGAGGGATTCCTTG
TGTATTCTGAGAAGTTCCAATGAGTTAGTAGTGTTGGTCAAGTCGCCTCTTGGTATAATGTTAACATTTCTGGTTAAAC
CCTGAACTCTGCAGCCATCAAGAAATTATAGCCCAAGAACAAAGGGATCATAGGTAGTCTCCCACATAGTGATGTCTGT
CCTTTGACAAACATCAGTGTCTTCACTTTGACAATGGTACGTTTTCTTTTGCTTATCATCCCTGGTTAAATCTTTTTCT
AATCTCAGCTGAATGGGTTGAACAATGATAGTCATTTTCATCCCTTGATATGAAGAGATGGTTACTAAACTCAAAGCAA
GAAAAAGTGTAAATATGACACTTCTGAGCCGGGGAAGCAAAGTGTAAACTGAGGCAGCAGTATTCTTCTTTATGAAGTA
TTTAAGCCATGATGCTATTTTTCAGTGTATTTGCTATGAGAATGAGAGTACTTGCTAATGAACACTCTCATTGTATATT
AATAGCTGTATTAATTGAGCATTTATTATATGCCAGGTACAGC TTAGGGCTAACTGCATGCTTTCTCATTTAATTTT
TACAATGACCTTATGATGTATATACCATTAATATTCTCATGTCATAGATTAGCAACCTGAGGCACAGAAAGGGTAAATC
ACTTTCTAAGATTACACATTTTATTACTGGCTTAATCAGATGATGTCTAAGTATCATGATGACATAGTCTGCGCTATTA
ACAACTCTCTCCTGCTTTTTGCACTTTAAGCATTCTACATGATTTTTACACACGATTTTGCTCATGGTTTACCTAGATG
ATTTTGAAACTCAATCAAGTTATGGCTACAGGATTATATGAAGGGACACCATAAAAACCCTGTCTATTAATTGCTGTTG
GCTTTGCTTTAGCAGAAGACACATTGGATTGGGCATCAGGGCAAATGGATTCTGGCAAAAGATATGCTCTTGGAACCAC
TTCTTTCAGCTATTAAGTGGAATGAATAATGCTTCACTTGCTTAAAGGCAGGGGCTGGACAAGATAGCATCTTTGACTG
AATATGAACAGAACAACGTATTTCTAATTGTGTTCTTTAGGGGCCAGGGTTGCTGGCATAAGCATGAATTGAGCATCTT
AAAAGGTGTCATGAAACCATGAAGGAAAGAAATCTCTTGCCTCTTGGTATAATGTGAACATCTCTGATTGAACCCTGGA
CTCTGCAGCCAACAAGGGACTACAGCCCAAGAACAAAGGGATCATAAGTAGTCTCCCACATAGCAATGCCTCTCCTTTG
AGAAACATCAGTGTCTTCACTTTGACAGTGCTACATTATCTTTTGGTTATCATCCCTAGCTAAAAATAATTTTAGAAGG
GCATAGAAAGAAGAGGTATATCTAAGATACTCTCTTCTAAGTACCAAGGTTGATTGATGATTCTTTTCAGAAACAAGAA
ACTTTCTTAAAGTATAATATGTTGATGGCTTTGTTGAGTTAGCAATTTATCACACCACATAGTTCTGTGGGTAATTTAT
CATTGAATCAGGTTCCCTTTACTCTGTCCCAATATTATAGGTTAATCTGGGACATGTAGTTTCTGAAATACCGACAGTC
CCATTTTGAATTATTATTTTAGAAGCTGTGAAGACATTTAGCTCCTTTTGATTTCATACTCTTGACTTTAGTACTCATT
GTAGACATGAGAAGTATGTGGCATTGTGTGAGCATCTGTAAAGATTGTAAATGATATTAATTAAGTTGGCTGTGCTTTT
TCTCCTCACAATGGATTCTTTTGTTAGGCTGGTAATAATCGCGTTTTTGGTAAAAACACCTCATGGAATTTTTTTCCTT
TCTCATAAAATAGCTGTTTACTGTAAAATTGAGATAGCCTCTCAAGTCTGGAACACCTTTCAATTCATCAAAAAGGGAC
AACCTAATATTCCAAAGAAGACTCAATCCTTTTAACACACATACATTTTAGGGCCAGTCAAGAGAAGTGGCCTGTTCTG
TAGGAAAACATTTCTTGGCACATTATTATTTTAAGTGATTGCAGGAGACCACAGAGGGAGAGAAAAGAGACAACAACAA
CTTCTAGCATGCCTGGGGGATGACTTGCTCTTTCATATTTGTGGAACCCTATGTCAAGAGAGAAAACATCTAAAAATAA
AAACGCATTTACTCAGATTCTCTAGGGCAAGGTGCAAAGAGCCTGTGCTGTAGGAGCTCAGATCAAAAATTAAATGGTT
GAAACCTGCAGAGCAACTGCCGTCAGCAGAACCGTGGGCTCCTTCTGGTTGATTTTGTGCCATTCAGTTAGTTTCCATA
AATTGGCCTTGGGTACTGATGTTCTTTGGTCTTTTTTGTGCTGTCCATAACTAATAGTGACCGTTGCTGGTAAATTGTT
TCTTCAGTCCAGTGATTATTGGCCTTTCAAAGCATTGACTTCCTCCACCAATGTATACAGTCACCAAATGGGATCTGGT
TTGTTCAACATTCTAGTCAAGTTCCAAGTGGTAGGAATCAAAATTCCACTCTAGTTTATGTGTATTATTCCTATAGCTC
TTCCCTCGAGATGTGGCATGGGATGGAAAATGGAGCCTATGTGTGGTATAGGCACTACTTAAAATTTATCAATAGAGAG
GGATCCATGAGGAGGAGGAAACAAGCCAAAGAGATTGGGCAGGCTAATTTTCTTCTAGACAGTTCCTGCTCTCTTGGAT
TTTACTCCAATTCCCCACTCTTTCCATAGGAGTAAAAGTCTTAAAACTTGAACTAATGTTGAATTTTAATCCTGAATGG
TGTAGCATCCTTCATTTCTATCCGTCTCATTATCAGCCCATACCCCTGCCATTGCCACTACCATATTTTCAAATGTCTT
TCAACTCTCCAAAACCTACTGACCCTAGTTTATCATGCATTTGAAAGGCTCCCCACTTTTTGTAGAACTTCAGGTATTT
TAAAACATATTTAGAAAGACTCTAAATAAACTGGAGTGAGTCTATAGCTAATGTTTGACCAAAAAAAAAAAAAAAAGTA
AAAAAGTGTGCTGTGAAATTTTGAATATTAATTGTGCCAATTGGAATGGCATTTTTAAAAAGAAACTATTTCATCCATA
AATGATAAATATATATTTCTTTGTTTAAAAAGTACATTAATGCAAAATTCTCCACCCCCATGTATTTTTAGCTTACATA
TCCATCTAACCTAAATACAGTCATGCATCACTTAATGAGAGGCATACAATCTGAGAAATATATCATTAGGCAATTTTGT
CATTGTGCAAACATTGTAGAGTGTACTTAGATACACCTGGGTGGTATAGCTTAGTATACACCTAGGTTATATGGTATAT
TCTATTGCTCCTAGACTACAAACCTGTACAGCTTGCTACTGCACTGAACACTGTGGGCAATTGTAACACAATGGCAAGC
ATTTTTGTATCTAAGCATATGTAAACACAGAAAAAGCACAGTAAAAATACAAAATAAAAGAGGAAAAAAAGTGACCTCT
GTATAGGACACTTACCATGAATGAAGCTTGCAGGAGTAGAAGCTGCTCTGAGTGAGTGAGTGGTGAATGAATATAAAGG
CCCAGAACATTACTATACACTACTATAGACTTTATAAACACTGTACACTTAACGGTACACTAAATTTACAAAAATATCT
TTTTTACCATTCGGCCCAGCAATCCTATTACTGAGTATATACCCAAAGGAATATAAATCATTCTATTATATCATAAAGA
CACAGGTAGTCATATGTTCATTGTAGCACTATTCATAATAGCAAAGATATGGAATCAACCTAAATGCCCATCGATAATA
GTAGATTGGATAAATAAAAAGTGGTACATATACACCATGGAATACTATGCAGCCATACAAAAGAATGAGATCATGTCCT
TTGCGGGAATATAGATGGAGCTGGAAGCCATTATCCTTAACAAACTAATGCAGAAACGGAAAACCAAATACTGCATGTT
CTCACTTACAAGTGGGAGCTAAATGATGAGAACACATGGACTCATAGAGGAGAACAACAAACACTGGGGCCGACTAGAA
GATGGACAGTGGGAAGGGGGAGAGGATCAGGAAAATAACCAGCAGGTACCAGGCTTAATGCCTGGTGATGAAATAATCT
GTACACCAAACCCCCATGACATGAGTCTACTTATATAACAAACCTGCACATGTACCCCTAAACTTAAAAGTTAAGAAAA

Fig. 6.80

TTTCTTTCTTCAATAAAAAATTAATAGCTAATTTTTATCTTTAACAATTTTGACTCCTGTAATAACACTACTTAAAACG
TAAAGCACCATATAGCTGTACAAAAATATTTCCTTTCTCTTTCCTTTCTCTGTATCCTTATTATATAAGCTTCTTATTA
AAAAATGTCTAGTTATCTCTTTTATTTTTTGAACTTTTTTCTTAACAACTAAGATACAAATACACATATTAGTCTAGGC
CTACATAGAGTCAGTATCAACAATATCACTGTCTTTCACCTTCATACCCTGTCTTACTGAAGATTTTCAGGGGCAATAA
CATGCAAGGAGCTGCCATCGTCTCTGATGACCATGCCTTCTTATGGAATACCTCTTGATATGCCTACCTGAGGCTGTTT
TACAGTTAACTATTTTTTTAATAAGTAGAAGGACCACACTCTAAAGTAATGATAAAAAGTATAGTAAACACATAAATTA
GTAACCATTATTTGTTATTGTTATCATGTATTATGTAGTACACATAATTGTGTGTGCTCTAATTTATATGAATGACAGC
ACAGTAGGTTTTTTATGCCAACATTGCTACAAACATATAAGTACTGCTTTCCATTATGACATTACTATGCCTATGGTAT
ATTAATAACTAGGCTATAGGAATTTTTCAGCTTCGTTATAATCTAATGGGACCACTGTAGTATGTGGTCCATTGTTGAC
CTAAATGTCATTATATGGCACATGATTATACTTGAAAATAATCAAAGTTATCAGATAGAGAAGGCTTAGGGATGCAGAA
CCATCTTTACAAGTTTTTGCTGCTTTGAGACAAATCCAACCCCGACTATTACCAGCTTAGAGACACCTCCTAGCTGCCT
CTAGAGATGTATATCATCTTTGATCAGGGACTGGGGACCTAAAACAGGAACAATAGCATAGCATGCTTTTATGTGCAAT
GAATTTTCAAATATTAAAAAAAACCTTCAATATTGTTGTTATATTATCTGCACAGTATTAGGAAAAATGAGTAATAACT
TATAAGTGAAAAAAATACCTATGCTGCAAAAAACTCTTTTAATGTTGACTCCAGTTTCAGCAGAATAAATTTGTCTGATG
ATAGCCCCAGTGTCTACAGAAAATATACATTTTCTATTACTGGGGTTACAGTGTATGTAGAAGCACTGTGAGAAACCTT
GACATTTTGGCAGAAAAGGATTTTTAACAATAAAATTCAAGAAAAGGTCATATTAGTAGAAATTTTGGTAGTCATTTTA
AATGTCTCCCACATTATATGGCATCATAAATGCATTTAATATCAGATTGAATTATGGCTGTAATCTTTAGCCTTAGTAG
TCTGAACATCATTTCATACCTAGCTTAATATCCTGGAATGTTATGTGTGGTTTCTGCTTTATTTAAAATAGAGGAGTGA
CAAGGGTGATGAATACATTTTATTTCTGTTTTCTCATCCCATTTTCTATTGCAAATGAATTTTTTTTCAGAAGTAGGTA
TGCCTACCTGTATCTTTGCAAAATGCATTTTCAGAAAATAGGTTTGGAATATTCATTTAAATCCTATTTCTTGTGACCC
AATGTAAACTCACTGCTGTTAAATCTAAAGTGTGTGAGTTCTTACAGCTGAGCAGTAATTCTACTGACATTTTAATGTC
ATGTCCTCTCCTTAGCAGCCTGTTTGCATATTGCATGCAGGCTACATGTTAGGATTTTTTAAAACATGAGGTGTCTTGG
AAAATGATTTTGACACAACTTGTCCTCTTGGACCAACTGTATTTTATAAACATTTTAATGCTTTACTCTTGAATGATCC
ATTTCACTAAGAGTCAGAAAACTGAGTTTCTGTCATGCCATGGTGACATGATGCTGACATTGCTGAGCTAGTTACTTAT
TCCTTTTACCTAAATGTTTAATAGAACACACCCAGCCCTGTGTGGGCATGAGAGGGAAATGGGCCCAGAAGTTGCAGTG
GTTGCATTCACAAGCCATTAAGCTGTGGTCAGTTTCTCCCTAAAGCATTGTACCTCCCTTAGACAACTTCCTCTTTGGG
GAGTTGCAATATCTAGAAACTTCAGAGGAAGGGGTCCAGCTGCAGGGATATGGTTAAAAGTTTTTTCAGAGGAGCCACT
TTGCATGGCAGTGGGCCATTTCCTGCTATCACTCAGGCCCAGCCTACCCACAAGTTACAGTCTTTGGCAAGAAACAGAA
GGAAACAGTGGTGGCTCTTGGAGCCACATGCTCAATTTTTGATGGTGCTCTTTGCGCAGTGAATGCCAGCTGCTCCTCA
ATCAGGTATGCTGCTGTTGTTCTGAGAGTGATTAGGAACAAAAGGGATGATGCAGATGTGTCAGGCTATGGGAAGTGCA
AATGTATATTTTTGGAGCACTGAATGTAAAGAGATTTAGAAGTTTCCTGTTGGAAAGCAGGCTATCGAAGCAGGCAGGC
AAAATGATTTTGACACCAATACCAACCAAGGGCAAGAAGTGGAAGCTTGGAAATATACTTGTTTGGGAATAAGAAATTG
ATAAGACAAATATACTTTTTAAAAAGAAAGATAAGAGAGGTCATGAAAGAATTGTGAAGGTCCAGTCTGTCCTATTTCC
TTTGCTACCACCTGAGTCTGTTACCATGGTCTCACTCTTGCATGAAAGCAGTCATCTCCTACCTAAGCCCCTTCTGTTC
ATCTTGCTCCTTGGAGGCTGGCCTCCACATCCTTGAAAATACAAGTCTGATTTTGCCTCTCCTCTGCCCAAACCTGCCA
ACAGCTTCCCAACTCATGAGGAGTGAGATCAAATGTCTTGCCATGGCTGACATGGCATTCTTGGGCCTGGCCCTGACCT
TCTCTGTCCTTATCTTGCACCACTCTTACTGTCACTCGCTCCCTTCAGGTCCCTCTGTTTCCTTGCTGCTCTTTTATAT
GCCATCCCTCCTCAGGGCCTTTCCACCTTCATTTCTGATTAGAATATTCTTCCCCCAGATATCCGTATTACACACTTTC
TCACTCCATTATCATCTGTTCAAATAGCACTTAAAAAGAGAGGTTCTGTGGCCATGCTATCTAAAATAGCACACTCACA
TGCACCCATGACTTTCTCTCCACTTACCCTATCTTCTTCACAGCACGTAGCACCACCTGTCATATTCTATCAAGTTGAA
CCATATGAAATTGCTTTTGGGTGGATCAAGAACAGCTGAATATTGGCCATTTCATTTGGTTCAAACTAAAATATATTTA
TTAATTTGTTTATTATTTGTATTTCTTCTATACTATGATTGAAACCCTGTGGGTCAAAGGTTTTGTTTTGTTTTTGGCA
ACATCTCCAATGTCTAGAGCACAGCAGGAACTTAGACAAGTTGTATTGAATTAATGGAAAGGAAGAAGAAAAGCCATAT
AACTTGTTGACAGTAAGCAGTGAACACTTATATGAAAAATGATCTCTCTCCCTTTCTCTGTCTCTGTCTTGTGTGTGTG
TGTGAGAGAGAGGGAGAGGAGAGAGAGGAAGCACTAGAGGACTCTAGAAAAAGGTGATGGGATGGGCTTCAGAGGGAAT
CCAGAAAATTAAAGGATTTATTTGGATCCATGTAAAGTTCAGTGTAATGTTTCTAGTTGTAGCTAGGGGCTATGTATGC
ACCTATAATTATTATATATATTTTTTTCCATGTGGTTTTCTGAAACTGGGACCAAGTGGGATCAAACAAGCTTTGGATAAT
ATAATTGTGAACTGAAAAAGTTTCATAATTGGTAAATTACAAGGATTCAGCTTGCCAATTGTGCTGTAAGTTGATTTTT
ACTAGAGAAAATAAGTTACTTTTTACTAACAGTTCTAGAAACATGGCTAATAATCTTACTATCATCCCTGCTACGGATG
CTTAGAAATACTGCATGTCTAATCTTGAAAGGAAATAAAATCATTACTATGGGTCAGAAGTAAAGGTTGAATTGAAAAC
TCCAGGGATAAACACTTGAATTGATACTGTGGCTGCCTTTGGGACAGTATTATTAGTCTCACTAACAAAGGGCTTGAGA
TATGAAATGGAAAATTGAGGTTCTGTGGGTTGGAACAGAGATCTTCAGTACAAAGTTGTGACCTTGGAATGGAAAGGAC
TGAAAAAAAATCATCAGAACAGAAGAGACAAGGAAGCTGTGTCTTAGAAAAAGAATGTCTCCTTCAAAAACACATCTCT
ATGGATTTGTACCTCATTTAGGTTTGGGAATTGAATTTGTACTACTTGTGTAGTATGGAAAAATCACAACTTGAAAAAT
TAACTACAGAGAGCCCAGATTACTGATACTTCTAAAGCACCTGGCAGAATCTGTTACAAACTTCTTAGGAGAAAGATAC
CATTCAACCAAGTTTCACAAGATTCCTAAACATAAATATCTTCTAAAGATTAACTCACAACCTCAAACTATAAAACATA
AGAACAAAATCCCCCACAAGTGAGAGTTAGCAAACACAAAGAGCAGGATTAGAATAAGACCTAAAAGTGATGGAACTAT
CACATAGACTATGAAAAATGAATATTGAAAATGATAGAGACATAAATGAATTATAAATATAAGAAAAAATAAGGTTAAA
AAAGAACACACTTTATAAAGGTGAAAACTAAAGTAATTGAAATTAATAATTTATCATAGGTTAAACAAATTAGATATA
GCTGGAGAGAAAATTAGTAGACTGTAATATAATTTGAAGAAATCAACCAGAAGGCACTGAAAAGAAAATGATAGAAGAT

Fig. 6.87

ATGAAAAAGAAGTTAAGAGACATGTTGGAGAGCATAAGATTCAATATATGTTTCATAGGCCTTCTAGAAGGAGAGCACA
GGAAGATTTGGGAAGAGGCAGTATCTGACTATAATGCAATTAAATTAATAATTTAAATTAAAGACAACAAAAAGAATC
CCACATGGATTTGAAATTAAATCAACACACGTCTAAACAACTCATGAGTCAAGCAAAAAAATAATGAAAATTAGAAAAT
ATTTAAAACTGAATGTTAATATTAATTAAATTCATCCATTAAATATTGTATGAGAAGCAATGAAAGTTATAGTTAGAAA
GTTATAGCTTTAAATGCCTATATAAGAAAATGAAAAAAGGTACAAATTAAAAAAAATTAACTTTTAATTTTTTTGGCTA
CATAGTAGATGTATATATTTATGGGGTACATGAGATATTTTGTACAGGCATGGGGTACAGGCATGCAATGTATCATAAT
CACATGGGGTGTAAATGGGGTGTCTGTCACCTCAAGCATTTATTTTTTGTGTTACAAACAATCCAATTATACTCTTTTA
GTTATTTAAAACTGTACAATTGAATTATTTTTGACTATAGTCACCCTGTTGGGCTAGCAAACCTTAGGTCTTATTCATT
CTTTCTATTTTTTTTGTACTCATTAACCATCCCCACTTCCCTCCCTCCTCCACTACCCTTACAAGCCTATGGTAACCAT
CCCTTTACCATCTATCTCCATGAGTTCAATTGTTTTAATTTTTAGCTCCCACAAATAAGTGAAAACATGCAAAGTTTGT
CTTTCTGTGTCTGGCTTATTTAACTTAACACAATGACCTCTAGTTCCATCCACACTGTTGTAAATAACAGAATCTCATT
CTTTTTAATGGTTTAATAATACTCCATTTGTATATGTAACCCGTTTTCTTTATCCATTAATCTGCTAATGGATTGCTA
CCAATTCCTGGCTATTGTGACTAGTGCTACAATAAACACGGGAGTGTAGATATCTCTTTGATATACTGATTTCCTTTCT
TTTGGGTATATACCTAGGAGTGGGATTGCTGGGTCATATGGTAGTGCTATTTTTAATTTTTTGAGGAACCTCCAAACTG
TTCTCCACAGTGGTTGTACTAATTTACATTCCCACCAACAGCATACAAGGGTTCCATTTTCTTCACATCCTCGCCAGCA
TTTGTTGTTGCCTGTCTTTTGGATAAAAGCCATTTTAATGAGAGTGAGATGATATCTCATTGTAGTTTTGATATGCATT
TCTCAATGATGTTGAGCACCTTTTCATATATCTGTTTTCCATTTGTATGTCTTCTTTTGAGAATTTTTTACTCAACTCT
TTCACCCATTTTTAAATTAGATTATTAGATTTAATAGTGTTGTTTGTGCTCCTTATATGTTCTGGTTATTAATCCCTTA
TCAGATGGATAGTTTGCAAATATTTTCTCCCATTCTGTGGGTTTTCTCTTTGCTTTGTTGACTGTTTCCTTTACTGTGC
AGAAGCTTTTTAACTTGATGTGATCTCATTTGTCCACTTCTGTTTTGGTTGCCTGTGCTTGTGGAGCATTACTCAAGAA
ATTTTTGCCCAGTCCAGTGTCCTGGAGAGTTTCCCCAATGTTTTCTTTCAGTAGTTTCATAGTTTGAGGTCTTAGATTT
AAGTCTTTCATCCATTTTGGTTTTGTATATGGTGAGAGATAGGGATTGGGTTTCACTCTTTTGCATATGGATATCCAGT
TTTTCCAGCACCATTTATAGAAGAAATCATCCTTTCCCTAATGTATGTTCTTGGCATTGTTGTTGAAAATGAGTTCCCT
GTAGATGTACGGATTTATTTCTAGGTTCTGTATTCTATTCCACTGGTCTATGTGTCTGCCTTTATGCCAATACCATGCT
GTTTTTGTTACTATAGCTCTATAGTATAATTTGGAAGTCAGGTAATGTGATTCCTCCAGTTTTGTTCCTTTTGATTAGG
ATAGATTTGGCTATTCTGGGCATTTTGTGATTCCATATAAATTTTAGGATTTTTTTTCTATTTCTGTAAAGAATGTCAT
CAGTATTTTTGATAGGGAGTGCATTGAATCTGTAGATTGCTTTGGATAGTATGGACATTTTAACAATATTCATTCTTCCA
GTCCATGAACATGGGATATCGTTCCATCTTTTTGTGTCCTCTTCAATTTCTTGCACCAGTGTTTTATAGTTTTCATTGT
AGAAATCTTTCACTTTTTTGGTTAATTTCTAGGTATTTTATTTAATTTGTAGCTATCATAAATGGTACTACTTTCTTGA
TTTCTTTTTCAGATTGTTCACTCTTGGCATTTAGAAATGCTACTAATTTTTCTATATTGATTTTGTATCCTGTAAATTT
ACTGAATTTGCTTACCAGTTCTAATATTTTTTTGAGAGAGTCTTTAGGTTTTTCCAAATATGAGATCATATCATCTGCA
AACAAGGGTAATTTGACTCCTTCCTTTCTAATTCGGATACCCTGTGTTTTTTTCTCTTGTCTTACTGATCTAGCTAGGA
CTTTCAGTACCATGCTGAGTAACAGTGGTAAAAATGGGCTTCCTTATCATGTTCCTGATCTTAGAGAAAAGGCTTTCAG
TGTTTCTTCCTTTAGTGTGATACTAGGTATATGTCTTTTGTATATGGCTTTATTGTGTTGAGGTATGTTCCTTCTATAC
ATAGGTTTTTGAGGATTTTTACCATAAAGGGATGTGAAATTTTATCAAATGCTTTTTCAGCATCAATTGAAATGGTTTT
TGTTCTTCATTCTGTTGATATGATCTATCACATTGATTGAGTTGCACATGTTGAACTATCCTTGCTTCCCTGGGATAAA
CCCCACTTGGTCATGAGGAATTATATTTTTAATGTGTTGTTGAATTTGGTTTGTTAGTATTTTGTTGAGGATTTTTGTA
TCAATATTCATCAGTGATATTGGCCTGCAGTTTTCTTTTCTTGATGTGTCTTTGTCTGGTTTTGGTATCAGGGTAATAC
TGGCATCGTAGAATGAGTTTGGAAGTATTTCCTCCTCTATTTTTCAAAATAGTAACATTGTTATTAGTTCTTCTTTAAA
TGCCTGGTAGAATTCAGCAGTGAAGCCATCAGGTACACAGCCTTTCTTTACTGCGAGATTTCTTTATTATAGTTTTGAT
CTTGTTGCTTATTATTGGTCTGTTCAGGGTTTGGATTTGTTCCTGGTTCAGCCATTGTAGGTTGTATGTGTCTAGGAAT
TTGTTCATTTATTCCAGATTTTTTAATTTACTGGGATTTAGTTGCTCATAGTAGCCACTAACGATCCTTTGAATTTCTA
CAGTCTCAGTTGTAATGTCTCCCTTTTCATCTCTATTTTATTTATTTGTGTCTTCTCTCTTTTTTTCTTAATCTGGCTAA
AGGTTAATCTATTTTGTCTTTTCAAGAAGCAAACTTTTTAATGGATCTTTTGTATTTTCCTTGTTTCAATTTCATTTAT
TTCTGCTCTGAACTTTATTATTTTTTCTTCTACTAGTTTTGGGTTTGGTTTGCTCTTGCTTTCCTTTCCTAGTTCTTTA
AGACACACTATTGGGTTTTTTATTTGAAGTTTTAATTCTTTTTTGATGTGGGCACTTAAAACTATAAGTTTCCCTTTT
AGTACTGCTTTTGCTGTATCCCATAGGTTTTGGTATGTTGTGTTTCCATTATCATTTGTTTCAAGAAATTTTATAATTT
CCCTCTTAATTTCTTCATGACCCGTTGGTCATTCAGGAGCATATTGTTTAATTTCTATGTGTCTGTTTAGTTTCCAAAA
TTCCTCTTGTTTTAATTTCTAGTTTCTTCCATTGTGGTTGGAGGAGATAGTTGATATTATTTCAAATTTTTTGAATGT
TTTAAAACTTGTTTTGTGACCTAACATGTGGTCTGTCCTTGAGAATGATCCATGTGCTGAGGAAAAGAATGTGTATTCT
GTGTATTCTGCAGCCATTGGATGAAATGTCCTGTAAATATCTATCGGGATCATTTGGTCTATAGTGCATATTAAGTCTG
ATGTTTCTTTGTTGATTTTCTATATGGGAGATCTGTCCTATGACGAAAGTGGGCTGTTGAACTCTCCAGCTGTTATTTT
CCTGAGGTCTGTTTCTTTATCTCTAATAATATTTGCTTTTTATATCTGGGTGCTCCAATATTGGTTACACCTATTTATA
ATTGTTATACCCTCTTCCTGAATTGAACCTTTTATCATTATATAATGACCTTCTTTTTCTTTTCTTACAGTTTTTGTGT
TGAAGTCTATTTTGTCTAAGTATAGCTACTCCTGCTCTTTTTGTTTCCATTGGCATGGAATATCTTTTTCCACCCTTTT
AGTTTCAGTCTGTGTGTGTTTATAGGTGAAGTGTGTTTATTATAGGCAATGTATGTTTGAAGGATATTAGCACCAGATA
TACTATTCTAGGGTAAAAGTTTTTTCTTTATGCCCTGTAAATGTGTCATGTCACTCTCTCCTGGTCTTTAAGGTTTCAC
TGAAAAGTCTGCTGACAGACATATTGGAGCTCCATTGTGTTATGTGTTTCTTTTCTCTTGCTGCTTTTAGGATTATTTC
TTTCTCCATAGCTTTTGGGAGTTTGATTATTAAACACCTGCATTAGTCTTCTTCGGGTTAAATCTGCTTGGTGTTCTAT
AATTTCTTATACTTGGATATTGATACTCTTTTCTAGGTTTGGGAAGTTCTTTGTTATGATCCCTTTGAATAAACTTTC

Fig. 6.82

TACCTCCTCTTCATGGCCAATAACTCTAAGATCTGCCCTTTTGAGGCTATTTTCTAGATCTTGTAGGCATGCTTTATTC
TTTTTTATTTTGTCTTCTCTGCCTGTGTATTTGCAAATAGCCTGTCTTCTAGCTCACTAATTTTTTCTTCTGCTGGATC
AATTCTGCTATTAAGAGACTCCAGCTGGGCACAGCACTTTGGGAGGCCAAGGCGGACAGATCACCTGAGTTCAGGAGTT
TGAGACCAGCCTGGCCAACATGGTGAAACCACGTCTCTACTAAAAATACAAAAATTAGCCAAGTGTGGTGGCGTGTGCC
TGTAATCCCAGCTACTTGGGAGGCTGAGGCAGGAGAATTGCTTGAACCCTGGAGGCAGAGGTGGCAGTGAGCTGAGATC
ACACCACTACCCTCCAGCCTGGGTGACAGAGTAAGACTGCATCTGAAAAAAAAAAAAAAAAAAAAAGAGAGAGAGAGAGA
GAGACTCTGATGTATTCTTCAGTATATCAATTGCATTTTTCAACTCCAGAATTTCTATTTGATTCTTGTTAATTATTTC
AATCTTTTTGTGAAATTTATCTGATATTATTCTAAATTCCTTCTTTGTATTATCTTGAATTTCTTTGGGTTGACTCAAA
ACAGTTATTTTGAATTCTCTGTCTGAAAGGTCACATATATCTGTTTCCCAGGTTTGGTTTCTCATGCCTTAATTAGATT
GTTTGGTGAGGTCATGTTTTGCTGGATGGTCTTAATGCTCGTTGATGTTTGTCAGTGTCTGGACATTGAAGAGTTAGGT
ATTGTCATCTTCACAGTCTGGGATTCTTCATACCCATTCTTCTTGGGAAGACTTTCCAGGTATTCAAAAGTACTTGGGT
ATTATGATCTAAGCCATATCTGCATCGGGGGTACCACAAACCTAGTAATGCTGTGGTTCTTGCAGAATCATAGAGGTAC
TGCCTTGGTATTCTTGCATAAGATCCAGAAGAATCATCTGGATTACCAGGGAGAGATTATTGTTCTCTTCCGTTACTTT
CTCCCAAACACAGAATCTCTCTCTATGTTGAGCTAACCACCTAGGGCTAGGGGTGGGGTGACAGAAGCGTGCCTGTTGC
ACTGAGACTGCGTTGGGTCAGACTTGAAGCCAGCATAGCACTGGGTCTTGTCCAAGGCCTGCTGTAACCACTATCTGGC
AAGGCCCTAGATACCTGGCCGTACTTAAGGTACTGTTCACTTAAGGCCCAAGGACTCTTCAGTCAGCTTGTGGTGAATG
CAGCCAAGTCTGAGACTCATCCCTTCTGGCTCAGGGCAGGTCCAGAAATGCCATTCAAGAGTCAAGCCTTGGAACTGGG
GACCCCAAGAGTCTGCTTGTTGCCCTAACCCACCATAGCTGAGCTGGTACCTGATTTTTGGTTCTTCTGAAGGTGTGAT
TTTTGCCTAGATAGTTGTTACATTTGGTGTTCCTGTGGGGTGGGGGGACAATCAGTGGGGCCTTCTATTCCACCATCTT
GCTCCCAAAGGAGTAAATATTATTAATAATAAGATCAGCATCCAATTCAAGAACTTAGAGAGTAGGCAAAGCAAATATA
AAGTATAATAAAAGAAAAATGTGTGTATTAATAATATATAAAACAAAACTGAAAGCCCTGAAAAGACTAATAAATAGGT
TAACATGGCATGTTTGAGTAAGGAAACCACTGGAAACATTACAGCTACTAGTATATTGGAAATAATCCCTGTACATCTG
GAACAAGAGAAGAATGACTTCGGGTTCTGCTTATGTTTAATTGGTTGTTCTAGCCAGCATTGTAGGTAAAAGAAATAAA
TAAAAGGTAGATAGAAAAGAGAGAAACCTAATTGTTATTAGTAAAGAGACTTCATTGAAAAACTATTAGAAAATAATAC
AAAAGTTCAGGAAAATTGCTAGATATAAAGTAAACCACCTTTGTGTAACCCAGCAAAAGACAATTAGAAAATTCTGTAA
ACTACCTTTGTGTAACCCAGCAAAAGACAATTAGAAAATTCAGTTTAAAAGCAGATACCATGAATACAGCAAAAATTAG
AAACATGTAGTAATAAATCTAACAAAGGATTTTTAGAAATCTTTACAAATAAAATTACAAAATTTTAAGGTAAGACACA
AAGAAGATGATAAATAGAAAGATATACTATACTTAAAGCAGAATGACTCAGTATCAGAAAGATTTCAATTCTTTCTGTA
TTCATTTATAAATTCTAATAAGAGCTCACACAAGAGTGGTTTTGTTGGTTGTTTTCAGGAACTTGACAATCTGATCAAT
CTGATTCCAAAATGTATACAAAGAGCTAAGCGTCAGTCATAACCAACACAATTTTGAAGAAGTCGGGAAGATTAGCCCT
ACCACATGTCAACAGCTACTGTAAAAGTATAGTGATTAAGACATTGGGATATTGGAGCAGCAATAAATAAATATATACTAG
GTTTAGAAATAGACTCATGTGTCCCTAAGGATGTATTACAAATCAGTGTGGTAAGGATACAATAAATGATGCTAGGAGA
TATAATTATTCACATGGGGAAATAAAATAATAAGTACCCTTTCTTACAACATATAATAATTAAATCCCATGTGGAATGT
AGGTGTAAAGGTGAAAAGAATAGTAAAGATTTTATGTTTTTTAGAAGAAAATGTATGAAATATCTTTGTGGCCAGTGGG
CAGGGAAGGATTTCTTAAGACTAAAACCCATTTACGCCTAGTGTTCCATTATTGGAATGCTAAGCATGTGAGAGTTATT
TATTATCCTACTGCTCAAGATCATCGCCAAGGCCTGATTGCAAAAATTCAAAAAAATTGCAACCTCAGGCATAAGTGGG
TTAAAAGACAAACTATAAAGAAAAATAATAATAGGTTGAATATATTAAAACAAACATTTTTGAATAGCAAATAACACCA
ACAACATTTTTAAAAAACTTCAGAATAGGAGATATTTATAGTATATACAACCAACAAAAATTAATATGCATTTTGTATG
AAGGAATCTTTCAAATAAATATTTAAAAATTCAATCCAATGGAAAAATAGGTGAAAGATATGAACAAACAATCGACAGA
AAAAAATGGCTGATAAACACACAAATATTTGCTTTAGCTCACTAGTAATCAAGTAAATGCAAATTAAAAAAAGGAAAAT
TTTATTTCATACCAACCAGTTTTAAGAATTAAAGTGTGAAAGTGCCAAATAAGAATAAATTGGTAAAACCAATTGGAAA
AGTCAGTTTGACTTTACTTAGTAAAGTTAAACATTTGCATATCTTGAAGGAGGAATTCCACTTCTAGGCATATATCTAG
AAACATGATTGGATGTGTTTGCCAGGGGACATGCACAAGGATGTTTATTCTAGCATTATTTTGAAATAGCATGATACTC
AAAAATAAAATTCTGTATTTCTATCAACAGAAGAAAGTACAAATAAAAACTGGGATATTTGTGCAATGGACTTACAGCA
TAGTAGATGAAATGTATAAATTCCATGAGATACATTAACATGGGTAATGTTAATAAATTTAATAAACAACATAATAGCA
ACATAAATTTAAGCAAAAACAAAAACAACTTGCAGAGGGATTAATATTATTTGATGCCATTTCTAGGAAGTTTTAGGAC
ATTCAAAACAATATTTTATGTTTTTAAAGAATACATCCATAGGCAGTAAAATAATTAAAAGAGGGTGGAAATCCTAAAC
ACCAATTGTAGGATTTTTCTGTGAAGGGAGGTAGGGAAGGAGGTAAATGGGCTCAGAGAGGGAAGGATACACTGGGCTT
TCAAATCTAACGGAATTGTTTGTTTTTTTCCCCAACATTTTATTTGATAATAATTAAAGATTCATAGGAAGTTGCAAAA
ATTGTACAGATATGTCCTGTGTACCATTCACCCAGTTTCCCCCAATGATTATGCCTTGCATTACTATAGTTATTATAGT
CATGAATTTGACATTGATCTCATGTGTTTGTGTAGCTCTATGTCATTTTGTTACATGTGTAGATTTGTGTAATCACCAC
TTCAATCAAGATTCAGAACAGCCCCAATCACTACAATGATCTCCCTTGTGCTATGCTTTTATAGTCACAGCCACACTCC
TTTGCCACCATATCTAATCCCTGGTAACCACCTAATATGTTCTTCATCTCTATAAAATATTGTCTTTTTGAGACTGTTA
TATAAATTAAACCATATAGTGTGACTTTTTGAAATTGGCTCTTTTTCTACACAGCATAATGTCTTTGATCCTTGAGATC
CTCCAAGCTGTTGTATGAATCTGTAATCCATTCCTTTTTATTGCTGAGTAGTATTCCATGATATGGATGTAACAGTTTT
TAAACTATTCACCTATTGTGGGACATTTTAGTCTTTTCAATTTTTGGCTACTACAAACAACTGCATATAAGTTTTGCTG
CGATCATAATTCTTTTTCTCTGGGATAAATGCTTCAGAGTGAATTATGGGGTCATATGGTAAATGCATATTTAGTTTTT
AAAGAAAATTAAAGCTATTTTCCAGAGTTTTCAAACTATTTTCCAGAGTTGCTGTACCATTTTATGGTACAGCCATATG
TTGTTGTTCCCTTAATGACATGTGAGAGATCCAGTTCTCTCCATCTTTGTAAGCATTTGGTATTGTCACTGTATTTTAT
TTTAGCAGTTCAAAGAGGTGTGTAGTGATGTCTTATCATAGTCTTAATTTGCATTTCTCTGATGGATAATGTACTAGTT

Fig. 6.83

TTCTATTGATGCTGTAACAAATAACTGTAAACTTAGTGGCTTAAAACAACATAAACTTACGATTTTACAGTTCTGTAGG
TCAGAAGTCTAACACAGTTTTCACCAGACTGAAATCAAAGTGTTGGTATTCCTTTCTGCAGGTTGTAAGGGAGAATTTG
TTTCCTCATCTTGTCTAACTCCTAGGCTCTACTCATATTCCTCGGCTCATGGCTCCCCTTCCTCTGTCTTCAAATCCAG
CATTTGTGGGTTCAGTCCTCATATCATATCATTCTTACCTCTTCTGCCTGGGTCTTCCACTTTTCAGAACCCCTGTGAT
TAAAGTAGCCCCAACCAAATAATCTGAAATAATGGCTGTATTTTAAGGTCAGCTAATTGGCAATCTTAATTCCATCTGC
AACCACAGCCCCCTTTGCCATGCCAGAATAACTGGTTCTGAGGATTGGGTGTAGACATTTTTAGGGAGCCATTGTTCTG
CCTATCATAGGTAGATATGTTGAACATCTTTTCATGTGCTTATTTGCCATCCATATGTCTTCTTCAGTAAAATGTCTAT
GTCTTTTTGCCATTTTCAAATTGGATTGTTTGTTTTATTAGTATTGAGTTTTGAGGGTTTAAATTTTTTTTGTTGTAGA
TATAAGTCCTCTATAATATTTGTTTTACAAATATTTTCTTTCAGTCTATAGCTTGTCTTTTCAATCCCTTAGCAGGGGC
CATTCACAAAACAAAAGTTTTTAATTTTGATGAAGTCCAATTCATTGATTTTTAAAAGTAAATTATGCTTTTGTTGTCA
TTCTGTATAAGAACTCATCACCAAGCACTAAGTCCTAACATTTTTCTCCTGTCTTCTAGAAGTTTTATAGTTTTATATT
TAATTCTACCACCCATTTCGAGTAATTTTTGTATAAATAGTGAGGTGCAAGTTGAGATTTATTTTATCTATTTAATTTG
TCTGTGAATGTCTGTATGCATTGCTCCAGCACCACTTGCTGAAAAGACTATCCTTTCTCTACAGAACTGCTTTTCCACT
GATGTTAAAAATAAATTGGCTGTATTTGTGTGGGGATGAATTGTTTCATTCCTTAATGAAAAGAGGAAATACAATAAAC
TATTAAAGTCTAATAAGGCTAAGGGCATAGTCATGTGTTGTTTTTTATATTTTTCTGTTATATTGAAATATTTTAAAAT
CAATAACGTAATAAGGAGGCATTTGCACCCTCAAACTCTGAAAATATTAAGAAAGTGGGTAATGCTATAGTGAGATGTT
GATCACAGTGGATTGGAGACTAATAGCTGTATGATATTGATAAGGTTACTGGCCTCTCTGGGCTTCAGTTTATTTTTT
TTTTGTGAACTGAGAGGGCTGAACTAGGAGACCCCTGGAGTCTTTTGACATTTGCATGCTCACATAGTATGTGATGCTT
CTCATTGTTGAGTTTAGAGTAAGAGATGTGGAGCGGGATCTAGGCTGTCATTCTGGTTTACAGCCTAAAGATGAGACAC
TGTTTATATTTCCAGGTAGAGGCTGCCTAATTAACTACAGGTTCATAGTGGTTGGGAGCAAGCCCTCTTTTTCAAACTA
CTTCGGGAGGTTTTATTATACCTGTAATAATCATTATACTATAGAAGATATCATTGTAGTTTCTTATAAATACCTCACA
CACTTCTTCTGGATTTCATAATGGGGTCACTATATGATGCTTCTTGGGATCTGATTTACAATTTATAAATAAGTCTGAA
ATATAAATAAGAAAATACAATGTATAAGAGTCCTAGAGGTTTAGTCAGCAGAATTCCAAATAGGAGTTTAACCCTCTAA
GGAGCACTTACAGTCTTCTTAGAAATAAACACATTGTAAAATGATTATGAGAAAATATTTATCATACACATTTTAATTG
ATAATTTAGCTGTTATATTTTAATTAGAAAAGAGTTTCTGATTTTCTTTATGGCTATGACTTTAAGCCTGTTATCTAGA
ACACAGTTTATATTTTCTGGTTTCATCATGACAGAAGGCATTTTGAGAAGGGCTAGAGCAAGAAATTAGCAACAGGACG
TCAATTTCGTCTTCTTTGTTTACTTCTTCTGGCTAGTAGCAGAATTTTTTTCTATCAGTAATTTTGGCATCAATAAAAT
AATAAAGGATTACAAACTTCATCCATCATATGCCAACAAATTTGATAACTTACATGAAATGTACAAATTTCTGGAAAGA
TAGAAACTACCAAAAATGACCCAATAAGAAGTAGAAATTCCAAATAGACCTACAACAAGTAAACAGATTGAATTACTAA
TTTTAAAATTTCCCACAAAGAAAGTCCCAGGCCCAAATGGCTTTACTCGTGCATTCTAACAAAAATTTAAATAAGAATG
ACCACAAATCCTTCACAAGTTCCTTCCAGAAAGAGAGAAATTGGAATTTTCATTCATTGTTGGTGGTAATATAAAATAG
CGCAGTCTCTTTGGAAAGCTATTTGGCAGTTTCTGAAAACATTAATTCTAGAGCTGCATATGACCCAGCAGTTTTTGTA
CTCCCTAGTATATATCCAAGAGAAATACCATATATCTACAAGAAAACTTTTACCCAAATGATCATAGTAGCATTATTTA
TAATAGCAGAAAATAGAAACAACCCAAATGCCTATCAACAAGTGAGGTGACAATCAAAATGTGATATATCCATACGGTG
AGGTATTATTGAGAAATAAAAAGAAATAAAGTATTGATATATGCTACAACATGGATGAACCTTGAAAATATTATGCTTA
GTAAAGGAAGCAAGTCACAAAAGACTACTTCTTGTATGACTCAATTTATATGAAGTGTCCAGAATAGACAAATCTATGA
AAGTTGATTAGTGTCTTCCGACAGCTGGGAGGTTTGGGACAAGAGGGAGTGATTGTTAATGGACCTGTTGTTTTAAATG
TTATTGATTTGATTGTGTTGATGGTTGCATAACTTTGAATATTGTAGAAACGACTGAATTGTACACTTCAAATGGTATG
TGAATTATATCTCAAGAAAACTGTTTTTTAAAAGTAATGTGAATATGTATGTTGAGATAGCATGGTATGTAGAAGTTAT
GCAGGGGAGTGGTTAAGATCATCAACTTGGGTCAGAGTGCCTAAGGTCAACCTCACCATAACAGTTGTGGGAACTTACA
GCTTTCTTAATTTCTCTGTGTCTCAGTTTCCTCACCTGTAAGCATAATAATAGTGCCTTTATCATGGTGTCATCTTTAA
CATTAAATGAGCTAATATTTGAAAAGCATTTAAAACAGTATGTGGCACAACATAAGCACTATATAAGTGTTTGAGAAAT
AAATAAATATAGGAAGACTACAATATTTGTTTCTTGGAAAATTACCTTTTATTTCAAGAGTTTGATCTTCCTATTCTAT
TATGTTAAAATTTCCCTTTGTAAAAAAAAAAAGGAAATGTTAGTTACAGTAGATGGCAGTTATTTTGTAATATCTTTAA
TTTGCTAAAGGAACAGTTGGCACTTCTATATTGATCTCAAAGTAATTTTAAAAATATTTTTTGAAATTGTACTTTTCCA
TGAAATCTTAAATTAGAGAACCACAGTTCTATAACTATGTCTTTGTTCAGTGGCCTTTGGAACCAGATGGCTCAAAAAA
TTAATAACCATTCAAGTTTTAACATTAGAAGAGTATTACAGATATTCAGCTACCTAGAAAAATACTTATCATATAGGAG
ATGTTAATGAATGTGCATTGGAATGAATGACAAGAATGGATCATAAGTGTGTGACTTGCTCAGTGTGTGTGTGTGTGTG
TGTATGTGTGTGTGTGTGTGACAACGACCTCTTTCTACTGGTATCCTAAAGTCTGTATAGTTATATCTGATATGCTTGA
GTTTGCATGTTTCTGCTAACCTTATTCCCATGAGATTTCACTTTGAGGTATTTATATGGATTCTAATCTTGCAGCTAAG
TTTTAGAATCCAATCCTCAAAGTATTAAGGGATAATTGGGATTATTTAATACCCCTCCCCAATTTTTCTGTAATGTTTT
CTATTAGTAGTATGGCTGCTGCTATGTTTGCATGTGTTCACTATTTTTATTTCCAATTTCTATTACATTTTTATTTTTC
TTCCTAGTTTCTGCAGACTATTTAAATAATTTTATTTGGTCTGTCTCACCCTCTGTGTTGGCACTTTTAATATCTTTAA
GAGAAACTTGAAAATATTTTAGCTCCATAGAGCACGTTTCAGTTTACCTTTTGTATTCCATAGCCTGGATGTAAGGCTT
CTTTATGTTTTGTGAACAGTTAGAACCACACTGACTGCTATGAAAATGCTTAGTAATAATTATGCTTCCTGGATCCTTG
TGAAATAACCTGCTTTACTCAATTTAGTACACAAGTTATTGAGAAACATCTATAGCCTTTTTCATTGCAGTGTGGGACA
GTAGTTCAGTGCATAGGATCTGAGGCGCTGTCACATCTTTCTTGATGTCTCAAAAACATACCATTGATTTTGCTTCCCA
AGTCTAGATTTACCAACATGTGAGAGACTGATGCTGCAGTGCCAGGAGAATTATTACTGATCATAATCCAAGAAGAACT
GACCAGAGAATTAAAGCATTTAAAGTTGCAAGAAGTAGGTTTATTCCTTGACTCAAAAAGGCTTAGTATAACCTACTTG
CACCCCTGTAAGCATCTAAATTATTGTCTTAAGAGAACAGAACCATAATGATAACCACAGTATTGCTTAATATCTGCTG

Fig. 6.84

CTGTTTTAAAGCATTTCCCACAGTATTTCATTGTGTCTTAATGTTACTAAACTTTATATTGCAATTGCTTAGAACTGCT
TTAATTGAAGCAATTTAAATTTACATATCCTACTGAGCCACTTTGTGTGTGAAGCACTAACATGTGATAGTGGTTCTTT
TTTATAGATTACAAAGTTACAAACAGTTGGTTGTAGATCTTATCTGTGAAAATAAAAAGCCTTGAACAAGGCTAATGAG
AATGATTAGAGGGAATTTATTAAAAAATTGACTAAGGCGGTCCCCCTCCCTCTATACTATGTCAGCTCACAGCGGGATG
TCTCCAACATTTATTGTCTGTTTAACTCATTTTTGGCATACAACTATTATGCAACTGTTTCAAATATTAATAGCTCCTC
TCCACAGCTAAACTGTGATCTTGATTTTATACCAGCCCTAATAGTGTCAAGGACAGAGGTGACAACATCTTAGGAGCTC
AAGACGAAGAATTTGAGGTCATTGTCCTGAGAGGTCATGTTTAGTTACATAGCAGGGAATGGTTATATAGGATTACAAC
TGTCTTATTTGAATAATTTACTGCAGCCCTTTGAATGTGTATTTTTTTCATAGAATTTTCAGTTACTTTGTCTCTTTGA
GATGTTCCCGTGTATTGTTCAAGGCATGGATTTTTATTGGACATACTGGTTGCAAGTGATGATAATCCAACTTAAATGG
ATCCTATCATTGAAAATTCTAGGGTTAGATCTGGATCCCAGGCTAGAAAAATATCATTAAGATCATTTTTTTTTCCATT
GCACAGCTCAGTTTTTCTCTTTATTGGCTTCATTCAAGTAGACTTTACTCCTACAACCCTGTCACCAACATAAATAATT
TGCCACAAAGTTTATATCTTATTGTTTCAGCAACCTCAATAGAACAATAGCTTCTCTATTTGTTTTAAATAAAAGTCTC
AGGATTGCATCTCACAAGACTGATGCAGGTCATATGACCCCAATTGAACTAATCACTATAGCTAGGACAGTGTCGTGCA
CCAAGACTGCCTGAGATGAGAGATGAGAAGTGTGGATTCACCAAGGAAGATCATGCTGTCACTATCAGAAAATGGAAGA
ATGAATCTGTTCTCCCCACCCAACAAAAATACATAGTTTTAATTTCTTTCTACTTTATGAAGTATTCCCAATTATATTT
CTTTTTCTTTTATGCGTGAACACACATTTTCTTTCCTCTGTAACAAACTTCTACCTTTAACATTCCCCAGGTCATCACT
GCATTCTCCATGTGAACAGTAAGAATAATGAGAGATCAGCGAAGAAAGCAAACCTTAACCCCTGTTCCTGCCAGAACTA
AGGGTTTCAACTGACATCTTCTAGAGTTTATGCCAAAGCCTACCTATTTCTGATGGATGATGTTTAAATTTCCATTGCA
TCCTAAGCTCCACTTCACTTTAGGCTGCCAAATGATTTTAGAAAACTCCTCAATGAAGATTGTGTAAACAAAATAGTGG
TTGAGACCTTTACTTATGTCATCATATTCATTTAGTCTAGCACTTTTCCTCTATCATTGACTCAAAGTTCTCTTTAGCC
AAACATCATTGTGTCAAAGATCATGGAATACTTTTGTAATATTGAAAGAAGGCCCAGCTTCTCCTTTCCTAAAAGTGTT
ATGTCAACCTCAGTTAAAATCAGTAGTCCACAGTTGTTTTTGCCAAAACAAGAATGAATTACATTGGTGGTGAAAGTCC
CTCTTCTAGTGGCAGAGAGAGAATCTAGAATAATTCACCCACTCGGGATATGGGTGGTTTGCAAGGAATGAAAAATCCA
ACTAGAATAAGTTTCCACTTTGCAAAGGACATCACATTTGCCCACTTTTGTCTAGGTAGCAGTGTTCAAGAATGGGGAC
TTGTTTTTTCTTCAGAACCTCTAGTCTAGTAATTTTATTGAATGATTTCTTCAAAAACTCCACTATTTCAAAATAATTA
AAAACTCATTTGAAAATCAATAAAGCCCTCAAGATGTTTTTAAAGAGTTTCTAGATTCACATTTAGTTTCTCACTTTA
AAATCATTGTTTTTTAAAATTGAATTTAAGCCTTTCATAATTTATTGCTAATTGAAAACAAAATCAACAATAAGCATAA
AATCCCAGTTGTAATCCAGCACAGCCTCCCAGATGCTTGTTGCCCTATTTTGATGTGTCCTTTCTTTTGAAGAGCTTGG
GTGTTATGTGGTCAGCACTATCCAAACAATTAATGTGATTGAGTGAAAATGCCCCTTCAGCAGAAATAGTTTCTTCTGT
GAGGAGGCTAAACTGCCATTAGAATGAAGAAGAGTTATGTAAGACTATTTTTTATCCAAACTGATTGGGCTGAATTCCA
GATTTCTCTAATGAAACCTTGCTGAATAACTGCTATGCTTGCAGCTGTGGAAGTATTCAAAATCAAGTGCTGATTCTTG
CCAATTGATCTACTACTTCTAAACTGCAGTTCTAAAAGCTAAACCCAAGTGATTGTTCAAAGAAACTGATTGTACAGGA
ATTTACTTTTGATGATAGTAAGTGGGCCAGAATCTAGGACATGAACATATCAGTTGTTATGACAACTGTTGAAGGAGAC
CTGTCTTGATAGCATGGAGTTTTCCATTGGCATTTGGCAAATAATACCATCCTTCAGAACTCAGGAGACCATTTACAAA
TTAAGGATGATGATACTTATATTTTCCTAGCTTCTCTGAAATATTCTGAAAACTAGTTCAAGATTTAAATATTTTTCTT
TTATTCTTTAGCGTAAAAAACTTTAGCAATCTTTAAGAACATTGTGATCAAGCATCTTAGGCTAATCTCAGGATAAAAC
ATTGTGACTGACAAAAACAATGCTTTATAAGAAAAATAGATATGTTAACCTTGTGAGAGGAATGACTTGATCTTGTGGT
TGTCGTTTTAAAATGCAAATAATACATCATAAGCTGAAAACATAATACTGGCTAAAGATTGCTCTTAAAAGAGGACCAA
AGTTCTGAAGTGAATATATTGAAGTGCCAGGATGTTTATTTTTTATGAATGGTGAGCCACATATACTTCTACTATTAAA
TTATAGTCTTACAGTGTCTCAAAATTTTCAGCTTTCCAATGCTTGGCTTCTTATTACGTGCAGAAAGAAGAGAATATTG
ATATTTCAAAATCTAGATGTATCAGCAGACTTATATTGAAATTGTTTTAAATTGATCCCTAACTATTCTTAGTTCCCAG
CCGTTACCTTATATATTGCTGCATAACAAATGCCCTAAAATTTAATGGCTTAAAACCATAGCCATTCTCACTATTTGTC
ATGATTCTTTAATCTGACATGGGCCCAGCTGGGTAGTTTTGTGGCTGGCAGTCACTCACGGCTGTATTTAGCAGGCAGG
TTTGCAGTGAGCTGGAGCTAGGCTCAGTTGGGATGCTGGGATGACTTCTCGCTCTCTGTATAGTTTCTGGGCCTCTCTC
TTTTCACATAGTCATTCCATGTGGCTTTTTGTTTTTTTGTTTTTTGTTTTTTGTTTTTTTTGGTAGTTTAGCTTCTTAC
ACAGCAGCTCAGGGTACCCAAAAATACAAAAATAAAAATTTCCAGGCCTTCTTAATCCTTAAACCCAGAATTGGCACAG
CTTGCTTTTGCAGCATTCTATTTATTGGTTAAAGGAAGTCACAGTGCCAACCCAGATTCAAGGAGAGAGGAGGATACAA
GGATGTGAATGCTGGGAAGCACAGCTCATTGGGGGGCACCCAAGTAATCATCTCCTGCATGATCATTTATTGATTCATT
CAAATGGCATGTGATATTTCTCTGTTCATTATGAGAAATACTAGTTACCCATATACTCTGTTGTGTCGTGGATAGATGG
ATTTAGTTAGACCTAGTTCCTATTAGTAGGGCTTTGCATAGCCTTTGCTAATCTCTGAAAAATATCTTCTGTATATCAA
GCAGACATGACCTTGATTTGCAGAGGTGACAGTTTATGAGGAGAGGCAGATATAATCAAATAACTAAATAAATATATGT
GTTCATGTGTGTGTTTATAGTTATAAACTATATTATAAATGGTAGAGGGAAAGTATAGGGTGCCACGAGAGTACATGAA
TATTAGGAAAGGGAAGTCAGGATAATATTCCCTGAGAAAGAGATGTGTGTTTGAATTATTTAAAGGGCAAGGAGAGTAG
AGTAGAAGAGTAAAGTGATGGGCAATGGGAGAGATGCATTCCAGCAGGCGACCTTGAGGTGCGAGAGAGCATGACATTG
AGGGGAGAAGGGTGTTTGAGGAAATGAATGTAGACAATGTGATTATAGTGCAGGAAGTTAGGGAAAAAGTGATGTGACG
TGCGACTGCAATGAAAAAATGGGAGCCAGAGCACATAGGGACTTACTGGCTATGATAAGAATTTGTAAGAACAATAGAA
TAGCACTGAAATATTTAAGAGATCAGCTGAAGATCATGGCAAATAACAAGACTGACAATTTGTAAAAATAAATCTATCC
TTTGTGTGGAGAACCAATTTAAGAGGCCAAGAGTGAATGTGCAAAGACTAATTAGGAGGTTTTTACAAAAGTAAAACCC
TTCCTTCCTTCTTTCCTTCGTTCCTTCCTCCCTCCCTCCCTCCCTCCTTCCCTTTCCTCCCTCCCTCCCTCTCTCCCCC
TTCCTCCTTTCCTCTCCTCCTCCCTTCCCTCCCTTCTACCCTTCCTCTCCTCCTCCCTTCCCTCCCTTCTACCCTTATT

Fig. 6.85

TCCCTCTTTCCTATCACACAATCATTTGTTCAATATATACTTCTGGAATGCTGCTGTAGCCAGGGACTCATCCGGGTGC
TAAGGATCTATCAATGAACAAAACAAAGTCCCTGACCTCATGGAACTTACATTCTGGGAATCGTATGAAATATTTCTCA
CTATCCTTTTTACATACAGTCAGTTCTCTAATCTTTATATTTTATGCACAACTGAAAGGGAAAGGGTACTAATAATTAC
CAAATGCCAATCATATATTAGGCATATCCACCTATGTTATGTTATTTAATAACTAATGGCTTACTGTGATTCTGACTGT
CCCATTTAAATTCTGATTGTAGAAACATATTTTGTTTTTGTGACTGATTGGGGAAACTTTAAATATTCAAGAAGTTAGG
TATAATTATGTGTTTATGCACTATGTGCATATGTGTGTATGTGTATCTATCTATATATCTATCTGTTTGTATATTTTTC
CCTCTGTCAAAAAATAGGTGGTTTGTTCAAAGACTGATTGGAAATTATTTTAATATAGACTGAAGATGACAGACTCATC
TTCAAGGTTAGAATTTGGGATGGCGAGGTTAGAATTAATCAAGATTATGGGTTGGGATGGTGAAGTTAGTTTAATACCA
TTTAAAATATTAATATCCAGGTGGTGTGTGTGTGTGTGTGTGTGTGATGTGTAGAAATTAACAAAGACACCTGAGTAAA
GAAGGATGGCTTGGGACTGGAAGTGTCAGATGGCATTGATGACAAAGAGTTTGGGGAAAAAATGAGAACAGAAGAAGAAA
CCAGTACCACTCTTGAAACCACATTCCAGTTTAGGGTAGCCTTAACTCTTGTTTCTTCTGATTCCAGCCTGCTTTCTTT
TAGCTTTTGCCTACAGTTGACCTTCCTTGCAGCATTAAAAGAAAGAGGTTGTTAAAAATGCACTTAAAAAATAACGCTG
TTTTTCAAATAAAAAATTAAATGTCTGCATTTCAAGGCATCTTTTCTACATTTATAAAACTATCTGGAGTCAAGGCACA
TGCATTAAGGCTTACATTATTTTTGTGAAGGTTCATTCCAACTGGGTTTTTTCTTTGGTTCTCTGGGGCACCCTGTTTG
ATTTATTTGAGCAGCTGTGATTTAGGATTGATTGTCACTGTAATATTATAGTTCTAATCTCTTGAAGTCTAGTACTTTG
TTTTTATAGTTCACAACTGGGAATTAGGAAGTTAACCTCAGCTGTCACCATATGTGACATGGATATAAAGAAAGATTTC
TTAGCACAGTCACTTTAAAGAACCCTTTTCATGTCAATAAGAAGCACTTAATGGTCAATTTACAGGTTGTTACTTTCCT
TTCAAGAAATATCCAAATACTTTGATTTATTAAAATATTTTTGAGGTTTATATTCAAATAACAAAGTTGACAGGATTTA
GACTATTGTACCTTTATATATCCATTATATTCTCTAGGTTTGCTATTATGCTTTTTGTTCTAGCTATATTTAACCTGCA
TATCCATATACTTATTGATTTAATATTTTGTTACAGTTTCAAAACAAAAATTAATGTGTCAGTAGCCCAGTCGTTAGGA
GCATGAACTCTAAAATGAGATTACCAAGGTATAAATTCTGATTCTGTCACTATGTGACCTTCTCCAAGTTGCTTAATCA
TTCTGTGCCTCAGTTTTTCTATCTGTAAAATATAAATAGTAATATGATCTATCTCATAAGATTTTTATTCTATTTAAAT
GAGGTAATATATGTACTGTACAGCACTTAGTAGAGTGTTAGGTACCCATTAAACAAAAGGTAGCTTTTAGTTACCATTA
TTATAAAGTGGAACCCCAGAGAGTTCCCATGTTAGAATTCAGCAAAGTGAGGAGTTGGGTTCTCAGCTTTGCAGGTTGA
GCAATTCAGTTTTATCAGTGATCCCAGATTTAATCATCTCACAGTCTCTCAGATGATTGAACAAATGAACCTAATAGTG
ACTAATGTAAGAGACAGAAGCTCCATTTATAAAAGTGACAGGAAAATATTTTGAAACAATTACTGAGGTGATTTTTTTT
TTTCATGCAATCCCTTTTACCTGTAGTTCTGTTTGCCTCTTCAATCTAGATCTCAGTCTCTGTGCCTCAGAGAAGGGAG
ATTTTATTAGACTAAAATCTAATGGAGGAAAAAAACGTTTATTAATGGTCTTTGAGTTTGAAATTCTAAAGCCCTGGTA
TAAATACGAGGCAAGTAAGAAAATTCATTCAGTCAAGCCCTGTTTGCTCTGCCTGTTGACTAATGATGAAGATCCTCTT
GACATGGGTAGAACAAAGGAACTAGGGAAGATGAAAATGAAGTAAATGCAGATGTTGGTCCCTGAAAAGTTCTCTGCCC
TGCACCCCACTGCAAAACCGAGATCCCTGAGGAGGCAGCGATAATAGTCTGAAATGAATTTGAGGCTCCAAGAGCAGAA
GGACCTGTCCCTTGCTTCCCAGGTGGTACCTGGGAAAATACCCAGATGCTGGAATTTTGTCATATCCTGGGATAGTATG
ACACCAGTTGAATAGGGGTGATGCTATAATACAGCATGATGTGGTATCTTGGGCCAAGAAAGCCTAAGTTAACTTCACT
GAGTTTCTTATGATCCCTAGAGTGGCTTGCTCTTTCCCTCTCCCCGCCTCCCCCAGATTAAAAATGGCCACGAATTCTT
TCTACCTCCCATGAAGGGACAGAGTCTAATTCCTCTCCCCTTGAATGTGGGCTAGCCTGGTGGCTTAATTGATGAATAG
AATGCAGCATAAATGAGCATCTGTGACTTCCAAGGCTAGATAACAAGAAGTTTTGCAGCTTTCACTTAGATTTCTTAGA
ATGCTCCCCACAAAGAAAGCCAGCTGTCACATAACAAGTCTGACCATGCTGCTGGAGAGCCTACCTGGGGAGGTGCTGA
GACTGCCTGTAGGGGAGAGGGAGGAGCTCAGTTAAGTCCTGTCTTCCATCCATCTCACCAAGATGACTGGCATGTGAAT
GAAGCCATCTTGGATTTCCAAACCAGTTCAGCCACAGTGAAACACCACCAAGTGACCCAAGGGAAGCAGAATCACACAA
CCCAGTTCTTAAAAATATGACCCGTGGGGCATGAACATTATAAAAATAATTATTGTTGTGGCCATTAAGTTTGGATGG
TTTACTTCCCCACAATAGATAACCAGGTCATAGCTCTTCATGTGCTCTTAGAAGAGGGCTGCAATAGACAGAGTTGTCT
AACTTCAACCTCAAGAAGTCTTTTGGTCAGAGAAGAACTCACAAACTGACTCCCAAGGGAACACTTGGGAACAATGCTA
TAGATTATATTTTGTAATTATGCAATATCTACCTTAAAAGGACCTCAGGGGAGCCTCTTTTTTTAAGTTTGAACAGGAA
AACTCATTCATTTGCACATCAGCAGTGGGCATTAGCATGGACAAATGTTGACAGAGAAGCAAACAATACTGCCATGATT
GGTATCATTGGAGTTGTACAACACTGCAGCCTTGCTAGCCACCCACTTACTCTCTAAGTCTTAGACACTACCCAGGAAA
AAGGGGGGATGGTGAGGAACCTTCATTTCACTGGGAATATCCTCATATGGCAGAAGAAACTGTGATTTGTCTGAAGACT
ATCATCTTGAACTAAGTTGGTTATTTGCCAGTAGGAAAAAATGGAGTTTGAGAATTAAGAATAGTAATAGAAAAATGAA
ACAGTTATTTTTTAGCACAATTGAGTTTGCAGCTTGTGAGATCAATATCTACCATAGTAATTAAATATGTGAAGTACAG
CCGGTAAGCCAATTAGAAAATCCCCATTATCTGATTAGCTCATCTCTTCCTGTGTCCATTTATTCTTTTACAGTGGGAA
TGGTTTTTCGGTTGTGATCAGAACCATTGTGTCTGCTCCAGTATGTACTCATGCTAGGAGGATAAATTAGTCATCAGGC
CATTCAGTCATCAGAAGTTCTGAACAAAGGTAATAGGAGAAGCTCTGTCTTGTGGGTCATCATGAGCCTGATGAACCAC
TTCTGCCTTACAATAGAGAACAGCTCTTTGGTGCTTAGAATTCTTGTGGTGTCCCATGCCCTCATTCAGTATTGTTCTC
TTCCATACGTGCTAAATAAATTATAGCAGATTCTGGCTTCCTGGTTACCATTGATTTCCTTCTAATGTGACCATTCCAC
AAGTAATGACAAACTTAATCGATAGGTATGTTTATACTGTTAATTAGGTATACTCAAAGCTTGTTTGGGACTTTGTAAT
ATGGCGTCTTTCAAGGATCTCCTCAGAGATCAGATTTCATTTGTTATATGTTGATTTTCCTAATTTAACTCAGAGTCCT
GAGTATCTCACTGTTGCCTCCATGTACTAAGGGTCACTCTATTCCCACCCTGTCCTGCAAGACATTCAGTGCAGTGCCA
ACCACACTTAACAAGAAGGATCCCAGTAAATAAGAAAGAGGAAGCATTTACATATTTTTGCTTAGGAAATGAAAAGAAG
GAAAACTTTTAACATCTCATTATAAATATCTACCACCCAGTAATTGAGTTATAGCTTATATTGTGCAATTTACAATTCA
TATCTTTAAAAGAGCTCACAGTTACCTCTATTTGTAAGTTTTGACAGCAAAAACCTGTTCATTTCTTCATCAAACATTC
ATTAATCCCTAATTAGTACCAAGTTCCATGGTTAATGCTTATTAACAGTCCTGTGAAAGGAATATTAAAAATATATAAA

Fig. 6.86

CCACAAGGCCCATAATAAACATATGAAATGTTTACTTTTATTAGTCATCAGAGAGATATAAATTTAAACCTCATTGAGA
TACCACTATACATTTATGAGAATGGCTAAAATGAAAAAGACTAACTATGCCATGTATTAGCAAAGATAGATATGGAGCA
ATTATAACTCTGGTAATGGAAATGGCATACCCAACTCGGAAAACGTTCAGTATCCCTTAAAGAGTTGAATGTACATCTA
CCCTATGATCTATAAATTCTATTCCTAAATTGTATTAGTCATCTGGATAACAAATTAGCACAATGTTAATGGCTTATAA
CAAGAATAAACACGTATCATTTCAATTTCTGGGGAATCAGTAATTCAGATGAGGGTTTAGGTGGTTTGGACTCAGAGTC
TTTCATGAGATTTCAGGTAATATGTTGGCCAGGTCTCCAGTCCCCTGAAAGCTTGACTGGGGCTGGAGGCTCTGCTTCC
AATACAGGTTACTCATATGACTAACAAATTGAGGATGACAGTTGGCCAGAGACCTCAGTTCCTTGCCATGTGGATCCCA
TATAGTGCTGCGTGAGTGTCCTCCTGGAAGCTGACGTGCCCTGGAGTGAATGATTCAATAGAGAGCAAGGTGGAAGCTT
TTATGACCTCACTTCAAAAGTCATACTCCATAGTTTTGTGAAATATCCTATTAATTTCATAAATTAGTCCTATTGAGTG
TATGATGTATGTATGTGCGGGGAGAAGGGTGTGGCTATGCAAGAGCATTGAGATAAGGAAGCAAGGACTATTGCATGCT
GTTTTTGGAGTCTGGCTACCACACAGGTATTTATCCCAGGGAAATGGAATGAAAGTCCCTCAAAACCTTGTACAAGAAT
GTTCATAGCAGCTTTATTTATAATAGCCAAACTAGGTAACAGCCCGGATGTTCACAGGAGTCTGGATAAACAAACTGTA
GTATATTCACACATTGGAAATGCCTCAGTGATAAAAGAGAACTACTAATGAATGCAATAAAGTTAATAAATTTCAGAAA
TATTATTCTGAGTGAAAGAAGAAAAAGATAATATATACCATATTATTCGACTTGTATGCAATCCTAGAACAGGCAGAAC
TGTAGGTGATAGAAATCCTATGTGTCATTGCTTCTCACAGGGATAGTAGGCAGATTTACTGGGAGTGGGTAAAAGGAAA
CTTTTGGGGTAATGGAAATATTCCATCAAATTTATCAAAATCAACTCAACAGTACACTTATGTTCTGAAGATTATATGT
AAATTATACCCTGATAAAAAATACAAGGCATAATCCAAGGAACATGAAAGACAAATAAGCCATATAATTGATAAGAGAG
AAATTAATACAGAAGGGAAAATATTAAAAGGAGAAACTAAGGTACATATATTTTTCAAATAAGTAAACACATGGTAATT
GTAGATAATTTTAATAATATCTTATTTTTATATTTATAATCTCCACTTCTGGAATAATTGTTGATTTATTTTATTTTGA
TGTACTTCCCAGTCTTTTTTCATGCATTTAAAAAATAAATAAGAACGTTTGGTATTTGAGATTTTGTAAATTGATTGTG
TTTGTGTGTGTAAATGTGTGTGTGTATGTGTGGTTGGCCTTACAGTATAAACAGTCCTCCAAATTATTAAAGACTATTT
TTAAGCATCACTTTCAATTGTTATATTCCATTGTAAGACTATTTATAATTTATGTAACCGTTCTGTTACTGATAGACCT
TTAGGTTGTTTCTCATTATTTAAATAATGCAGTGGAGTTGTTCATAAAGGGTGATCTTTAGTGTTGAGGATTATTTCCT
TGGGCTAGGGTTTCCAAAACGTTCTAGATCAAAGAATATGTTTCACATTTTCATATTGCTTTCTACAGGGTTTAAATTA
TTATACACATTTACCAGTAGTCTATTAAAGGACTTATTTTAATAGGTAAGTGAAGTAGGTATTTCACTATGCTTTGATA
AGCATAGTGAACACTTTGTTCATGTGTTTATTAACCATTGTAATTGAGAAAAATGGCTGAATTGAGCCTTAAAGAATGA
ATAGCATTTTAAATATCAATTGAAGGCAAAGATGGGGAAGGTTTTTTCTGCAATGTTCATGGCATGGCAAACAAAGTCA
TTCCATGTCAACCTCATGGAATTGTAAGTCATTTAGTATAAAAGCTTAGAGCAGTTGTTCTCAGTCTTGGCTGCACAAT
AGGATCACCTGAGGGAGAATGTAAAAATCTCCAATATCTAGGCCTTACTAGACCAATAAAATCAGGATAGTTGGGTGAA
GAACTCAGGCATCAGTAGTTTCTAAAAGTCCCCAGGTGATTACAATCTGTAAGCAAAATGTGAAACCAGTGGTATAGAG
TGAGGTGAAATGGGATAGGTTGCCATTAGAGATGAAACAGAAGAGATGAAGACCATATGTAGCAAGACACAATGCTCTA
GGATAAATTGTATACTTCCTGGGCAAATTAGCAAATGCTGTTAGGTTAGTGTCCCTTTCTTATCATCTTGGAGTCCTTT
ACCTTTTTCATGCACTCATGCAGTGTGCATTACTCCCAACCAACAACTAGCACCTGATCTTGTGGACAGGCTGCAAGCA
AACCGCCCCCACTGCCACCCACAAGCCTGGAGACCTGGGAGTTTTTTCTCCACACCCCCAGGACATAGGCCTGAAGCAA
TGATTGCTGATGATATGATATAAGTAATCCAGCTTCCTCTTTCCTAATCAAGATAATTCTGACATGTGAACTATACTAG
TCCATTCAAGTAGCCAATATGCAAACTTTGCCTTGTTATCTAGGACAAGATGAGCTTGTGCCAGAACATAAATCTGTAT
GCTGCTTCCTTCACAAAGAAATGTTTCTATGAAAGAAAGGTCAGCTGAAGTAAATAGTGGACTTACTGACTTAGCTGCA
AGCATCTTATTTCATCATGGACCAGTGACACAGACCAAGGATCTGCAAACCACACTTTGCGTGCTCTGCAGCAGTGAAC
TCATTTTTAAAATATCCTTTTCTTGCCATATCTAAGGTCCCGGCCTTAGTTTAGATGCCCATTAGTTTTGAGGTTTAGA
ACCACTGGTTTGCATTTCAAAACGTAACTCAAGAACCATGCCAATATTTCAATGGAGATGGTAGCTTCCTCAGAATTTG
TAAACTGAAATTCTCTTTGTGAGATATGTGTTATTTACTGTAGACTTCATAGCTCATAGACTGATTCTAAATTATATTT
GTAAGGTAACTTAGGTGTATCCCACNTATCTGACGTGGAGCAAGTATTGAAAACTTTCTGGTGCTCAGTTTTCTCACTT
CTTGAATGAGGAAAATGAACTACATTATTCCTAAGGTCTCTTTCAGTTCTAAAATGTTATGTTCAACAAGAGCTACTAG
ATTATGTCAGTGAAACAAACATAAAACAGATTATTCCAGTAGCAATTGTCACTTCTCAAAACAAATTGACAAAAGTCAT
ACATCTATTGTAACAACAATTCTCCAGGAAGCTAACCTTTGCCTGTTTTTCATAAGGATATGTTTACTGCTTTTAACTT
TGCTTTGGAAATGGGTAACCATCTAATTAGGTTGATAAGGTCAACATGCAGGAGCTTTGGAAAGAGATTGGATAATATT
TGTGAGTGTGTATATTTGCCTAGACATGCTTTTTGTCAAGTTTATTGTACTTTAATGATTAGCTAGAAATAATAAGGCT
GCTGTATATGCTATTTTATTAATGCTGTGTCATGTATGGGTTTTTCGAAGGTAATTTGAAAATACAGAGAAAATATAAT
TATTTGAGGGTGCTTTTAGAAGAGGTGGATATGTTTATAAAATTAAATAGTAATTTAATAACACAATACTTCTCAAGAC
AGAATTCACCAGTATACATGGTTCATAGAGAGGGTTTGTGGCACTGAATGAGTTTTATTTTCCCTGATTTTCAAGGAGC
ATGTAAATGCATTTTGGTGTGATCTTGTGGATCAAGAAAGATGATTTTAACATATGTAAATCATTTCTGCTCATCAGTT
TGTCACATCTTGTCCCCAAACAACCCTAAAATAGTTCAATATTTTTTAGACTCTTTTGTTGCTCAACTTATCTAGGAAG
AAATGTGGACTTCACAGTCATATCACAGACTTTCCATTTGAAATGATTCTCAATTCCATTCTCTTCTGGGCTCTTACAC
TTTTGAATCCTCATAAAAACATGGGGAATTAGGACATCTGTGTGGCATTTTTAAAATTTATTCTTTTTTTTCCTTAAGT
GAGGTATAATACACAGATAGGAAAGTATATTGATCTTAAGTATACAACCCAATGAATTTTTACATATGTGTACACTAGT
ATAACTACCACTTGAACCAAGATATAAAGCAAGATTTAAAAAATCTCTTCTCATCCCTTCCCAGTTAATTTTCCTCCAT
TTAGAAGTTACCACCATTTTGACTTCAAGCACCATAACTTGATTTTGCCTGTTCTTGTTCTTCATAGAAATGGAATGAT
ACCTTATATTTGCTTTCTTTTGCTCAATATTGTGTTTGTGAGATTCATGTGTATTCTTGCCTATGGTATAATAAATAAT
CATTAGCTTCATTTTTACTGTGATGTAATACTCTATGGAGATTTCATTTTACTCTTGATAGATCTTTATTTTCATTTTT
CAGTTATGAATGTCTGTTGTGATTTTTGATGAATACATCTACTCATTCATTTTTTAGTTGACATAGCTAGAGTTAACAT

Fig. 6.87

GGCTGGTTTGTAGGGTAGACATAATTCAGCTTTACTAAATGCTGCCAAAGGATTTTACAAAGTGATAGTACTAACTTCT
ATTTCTACCAGTGATGTATGAGAGCCCTAGTTCCTCTGCATTTGTGCCCATATGTGATATTGTCAGTGTTTTTCATTTT
AATGATTCTGGTGGATGTGTGGTAGTATCTCACTGTGGTTTTAAATTTTATTTCTCTAATTAATAATAATATCCTATGC
CTTTTCATATGCTTACTGGCCTTCTGGGAACCTGTTATATGAAATACTATTCAAATTTTTTAGCTATTTTCCTTTAATT
GTCTTTTTTTGTTTTTGATTTGTTCTTTATGTATTCTGATAAATATGTAAAAAAATCAAATTAACAAGTATCTGATTCC
AGTCTGTGTCCTGCTAGTTTTTTATTAATAATTTATTTGATGAACATAAGTTATTAATTTTAAGGAAGTCTAATTTAT
CACTATTTTCTGTGATTGTTCATGCTTTTTGCGTTGTGTTTTACTATGTGATTTGAAAATCCAGTCACCACAAAATGCA
TTCAAATTGACAGATGCTAGGTTTGTTTCTTTCCCCATTAAAAAAATTGTAATATTCACATACATAAAATTTACCATCT
TGGCCATTTTTAAGTATAAAGTTTAGTGTTAATAAAAACATTCATAATGTTGTAAAACCATAATCATTACCCATCTCCA
GAACTCTTTTTATTTTATAAAACCAAAACTCTGTATTCATTAAACAACAACTCCCCATTCCTCCTTGTCCCCATTGTCT
GGCAACCCCCTGCCAATTTTCTGTCCCTATGATTTTGACTACTCTAAGTATGTAATATAAGAGGAATTATACAATATTT
GTCTTCTGTGCACTTGGTATAATGTCCTCAAGATTTATCCATGCTGTAGAATATGTTAGAATTTCCTTCCTTTTTAAGG
CTGAATAATATTCCATTGTATGTATATAACATACTGTGACTTAAATTCTGGCTTACCATGTTTGTCTATCCTGAAAAAT
GTCCCATGTGCATTGAGAAGAATGTATATGATGTTATTGTTGGGTAGTGTTCCATACCTGTCTATTAGATCAAATTGGT
TATTGTGTTGTCTTTCATTTTCTTACTTGATTTTCTGTCTGATTGTTCTATCCATTAATGAAAGCAGAGTATTAAAGTA
TCCAACTATTATTATAGAACTGTCTATTTTTCTTCTCAGTTCTGTCAGTTTTTGCTTCATATTTTTATTGTCCTATTGG
TGGCATAAATGTTTAAAATGGTTATATTTCTTGATGTACTGAAACTGTTACTAATATGTAATATGTCTTTCTTTGTCTC
TTGCAGTTTTTTGATTTAAAGTTTATTTTGTCTTATATTAGCATAACCACTCCTGCTCTCTTTTGGTTAACTCTTTAC
ATGGAATATTTGTTTCATCGTTTTATTTTTAATCTATCTGTGTCTTTGGATCTAAAGTGAGTTTCTTGTAGATAGCGTA
TTGTTGGATTCTGTTTTTTAATCTATGCTGCCAATTTGTCATTTGATTGGAAAATTTAATCCATTTACATTTAAAGTAT
GTAATCACAGGTTGAAATAAAGAAGGAAGCAATTTCCTCAAAGAAGTAGGTATGCCACTACCAAGAGAAGGGAAATAAG
GTGCTGGGCAGACACAAATAATAGATGTCTATTACAAAGGAAATAAAAATGCTTGACTCATGTGAGCTGGTTGTTGAAA
GTCTCTGGCTCTCAGAACTGGGGCTCTATAGAGGATCACTGCAGGCCTAAGCAAAATAGAAATACAAGATGCAATTCCA
GACTCTTACTTGGAAGTCACTTTCATGGGGTTTTAAGGCCAAAGGTGGATCCCTATATTACATCCATCAGAATAAAGCG
CTATCTGATTTTCTCTTACTGGTTCCAAGGAGATGCTCCTGTTGGTAAAATAGGGGCCCCAGAATCTCCCAAATTATCA
CCCTTAAAAGATCTTGTGTTAGTAATTCATGTTTAATTCCCTTTCCTTCCTAAGTTTCTCCAACATGAGTATAAAATTC
TTATGGCTACAACAGCATTTAGATAATTGATAACTGTGACAGATAAACAACATAGTTGCTTTTGAATAATTGCTACTTC
TAGTATTAACTCTGTAGCAATAAGCACTTCTTAGGGAACTCTATTCAATTCTTATTTCTATCTTATTTATATTGGGATA
TGTGATTCTCAAACTTTAACATGTGTACAAATCATCTGGACGGCTGGTTAAGATATAGATTGCTGGGCCAAATCTCTCA
GAGTTTATGATAACATAGGTCTGGGATAGGGCCCCAACATTTAACAAGCTCCTAGTGATGCTGCTGTTGCTTGTCCAGG
GATCACACTTTAAGAAGTAGATAAAAGATACGTCCCTAAACATATTAACATGAATAAGTCCTTTATACATCATATTTTG
TCTCATTAGGGAAACTTTCAATTAAAAGAAACTGTATTTTCTTTGGAAAATAAAGAGCCTTTATTATAAAAATGAAAAT
ATTTGCTCCTCAATTAATTTTGCAATTTTGATTTGCTTGAGGGTTGGGGTAAGAGATAGATTCATATATCAGATTAATT
TCTTGGAGGCCATGCATCTTGCAGAAGGGAAAAAAATCCTCATAAGTAGCATTTTTTAAAACACAAGGATAGTTTTTA
TCCCATTGCAAGTAGCCTTAACCTCTGCTCTACAGTTTTTTATCTGTTCAGCCTAATCAGATTTTGTGGTTGGTTGAT
TTTTCTTTTATTTACGTGTTCTTGTTGTGTATATACCAGATACCAAATGTCTTTAAGTAGTATTTCCAATTGGGATTAA
AAAGGTCTGATTCTAAATTCTGTCAGTTCCAGATTTGGTCGCCAAATGAATCATAGAAATCGCTACAGAGGAGTGAATC
ATACTGCTCTCTTTCTATCAGTCATGGCCAATAATTTCAGTTAGCCTACCTCATAAATTAAAATCTGGGAGCAAGAATT
TTTTTGGTAGCAACGTTGCATCAGTACTGACATACAAGAGATGATTCTGAGAGTAGCATGGGAGAGAGGAAGAATACAG
ATTCTGCAATAATAACTGTATCAGGTGATATTTTTCTTCACCTGTTACATTTCAGATGATGGAACTTTAAGTATTGAGT
GGCTCAAGGACTTCTGGGGCACAGAGATTCCACTTTAGAAGCTTTCTTTCTTCCTTGAACACTTTAGGTTTAAATGTCT
CCTTTTAGGACAAACTCCTGTTTGGAGTATGGTATTTTCTCTATTCTAAGTAAGTATTAAGAATCAATAAGGGCCTCTG
TCCTCTGTTCAGTTTCTGAAGGACCATGCACCATGGTTAAAATACTTGTCCATAATATGTCATGATAGTGTGGTATGCC
TGCTAACATCACTATTTCATACTTTGCAGTTTCTAATTCTGCCCTAACAAGTAATCTTTAATTCTTCTTCAAGTATTAA
GATAAATAATATTATTAAATTGGTATCTAGTAGTTATACTAAATTCATTTTTATTAAGTTCATTAACAGTGCCTGTGTT
CACCACCTTACTCGTAGGTAACAAACATGGGGCATCTTCATTTAAATCAAGTTTAAAAAATATTCTATAAGTTATGTAA
ACACACAAACTAGAAAGTATTGAAGATAACACAAGAGAAAGATTGTCAAAGTATCCTGTCTCCTTTCTATGAATTTGCT
GGAGAAAATAGAAAAGTGGACTAGGTCATGAGCAGAATTGAGTTTGTGTGTATTTCAGGACACCGTTGACGTTTCCTTG
GCTTTAAATGATTTAGAATGGTGCCTGGTGGTAGAAAACTTTCTGGAGGCTACATGAGAAGTGATACTAATAAAGTTTT
CATATGTATGTACTCTCTTCTCAAAGAGAAAACATTTTATTTGTGATCTTAGCATCTCTCTCAAGGAGATGATATGGAA
GTTGAGCGTCTGCAATGGTTCGTAAATTGAGGGAAGGTTTAATTCCCACCTTGTTCATTTAAGTATCATGTACTATGAT
AGGCTCAGGGGAAACCAAGAAAAATTCACTTCCCATGACCTCAATTAATTTCAATTATAGTGAAAGAAACATTAAAACA
AAATTATAATACATTAAGATGATTATTCTAAAAGCATTCAGCATAAAGTCCTATGGTGCCTACAGACACCTAATCTCGC
TGGACGAGTCTGAGAAGGCTGCATAGATTTACAGGGCAATTGAGGGCCAGAGGGAGGTCTAGGAAAATGGAGGACAGGT
GCCAATGACAGAGGCATAAAGGAAGACTGGCTTGTCATTGTGTAAAGGTGTAGCAGAAACGCAGCAGCCAAGGCTACTC
TTGGAAGCAGTGGCTCCATAATGCCTGGCCTTATTGACTATAAAAAAAGTTTAAAAAAAATTTATTCTGTTGTCAACGG
GGGAAGAGAATTTTGAAGAAATGGAATGGCAAACTTTCCTAGCTTTTACAGAGAATTGCGAAAAGAATCGGGAGGGGAG
AAGAGGTAGGCTTCCAGAAATGACTCCCAGAACAAGACCATCCGACTGGTCTCAAGAGAATCATCCCAGAAGGCTGCCC
GTGAACCTTTGGAGTTCAAGAACGTATAGTATGATGGAAATCCTGGGAACAGGAGGCTGCCACCAACATGGCTGCTACA
ATTCTTCAGACACCATGGTGTCAGTGACTCCACACAGGGCCATTGCTGCCCCAAACCTAATATTTCCACACCCCTATTT

Fig. 6.88

GCCAGCAACAATAACCAAAGCAATAGGAAAATAGCCCCTGCTTCGCTTCTGTCTGCCAGCTGTCTCACTAGAGCACATG
AAACTGGTGGAATCTAATATGTATTTGAAACTCTTATCGCAAAGTAGTCTGATAATTGTAGTTTTTGCCTTTCCAGACT
CCACAATACAGGTGAGCTCTCTGGAAGAAGGGAGAAATTAATGTTGAGGACCAATTCATCATATATACTAGACAAAAGA
TGGATGACATGGATAAGGAAATCTATAGAGAAGAGAAGCACCTGAGAACATGAACATTCAAGGGACAATTGAGGAGACT
AAGGATGAATGGTCACGGGGTCAAGGGAAGAACGCAGGAAAATGTAGCATTATGGCAACCAAAGAAGAACAAAAGTTTA
GGAAGAAGGAAGTGGATAATAATGGGAAAATGCTGTAGTGCAGCAGTTATCAATTTTTGTAGTATGACATCTTTTCAGT
AACAAAAATTCTGTGTACCCCTAGTATTAGGCAAGACTTTGTTACAGAAAATCAACTTAAAGTCATTTATGCAAAAAAT
GAATTTATTGACACATACAACTTTAAGTGCAGTGGGGACAGATCTAGCATTAGCTGCTTAAGTGGTGCAATCGGGTTAA
ACCTTTCTCTCTCCCTCTTTTGCTTTGCTTGTCTGCCCTCTGTATTGGCGTCATTGTTAGGCAGGCTTTTTCCATGAAA
CTAGGAAAAACTGAACTCTGGAAACCAGACCTACATATTGCTTACAACTTCTGATCCCAAAAGAAGAGAACTTTCTCTC
TTCTAGTATCCCCAGGTCAAATCTTAGGGAAGAGATTGATTGGCCTGGCTTAGGTCAGGTGCCTTTCACTGCACCAATC
ACTTGCAGGCTGTAAGCATAGAGTGCTCCAATTGGCTAAATCTGGGTTACATGCCCATCCTGCTGGTGGAGGGAATCTT
GTCAGTCACACCCAAAACATGGAAAGGATTTTTCCATGAGAATCACAGAAAGTTATGATTTTTCTATTATAAAAAGAGA
AAATAGAAAATGGATGCTAAGCAGGCAAATTTACCAGTCTGTGACAGTTCCACATAAGAATAATTACATATTTAGAATG
TGTTACTTGAGAAAAAAAATATATATATAATGACAAAGAGCTACTATGAATTTAGTGACACTTAAAATAAATTTCTAAA
ATTCATGATAACAGCTGCTATGTACATTTAAAAATTACATATATATGCAACGATATCTTCCTTTTGCAAGTAATGCTTG
GGGAGCTTCTAGATTTATGAGCCTCTTTCAGTCACTCTGAAGCCTCCAAAACACAGATTTCTTGCCTTGAAATTAAGTT
AATCATGGATTCAAAAAGTAGCCTATGCACAATTTCAGGTGTTCTTACATAAAGACATGCTCAGGAAATATTTTAAGAC
ATTTTCATTCAGTATATAGAGTACCAGTAAATACTGTACCTTCAGGTGGGTGATTTGCTACCACCCAAATAGCTAATTT
AAAAACCAAAATAAACCACGAAAATGAGGGTAGGGGTAGGGAAGCACACACAGTTTCACAAGTAACATCTTCTTTTAAT
TTTTTTCTAGTTCTCTCTTTTCTGTTTTCATTTTTAATATGCATATGATGCATAGACAACAAATATGGAAACATTAAA
TGAGAAAAAAATATATAAAAATGTTATTCATATAATATAAATAAAAATATACAAATAAAACGCGTAATAAACACAATATA
TAAAACATATATACAAATAAACATTTGTATATATACATTATACATATATATCTATATATATATTTGTATATACATATAT
ATATTCCCTACCCCACCCCCCCCAAGATTCTTAAAGCAAGTAGCTTTCTCTTGAGGACAGCTTAGAGACCTGTGCCATAT
GAAATGGGATCTGGACCCGTCCCCAGTGCCCTGTGAAGGGTTGCTCTGTACATTAGCTCCCCAATCTGCAAAATGGATG
TTGCTTGACCCGTTTTCTTTCCGCCTCCTGGGAACTGGTTAAAGTCCACACAAACTCCTTCAACCTCCAGGGACAGAAA
TGGCATCTACGAGCTAATGTGAGGGTCCCTGGGTGCAGAGAAATGTATTAGGAGCTGTGTTTCCGGAATGACGGTTTCG
TTCTTGGTCTACTGAGCGTCACCGAGCTCGGAGGACACCTCTGTCATTTCAGCAGAGTGACAGGGCTCAATGATTCCAG
CGCCCAGGTGGAGAGAAAGCGGCTGAGGGGCTTGGCCGGCTCCTGTCGCGCCCCTCAGTCCGCCCCAGTCCCATGCAGG
CTCAGCGCCAGGCTCTCCGCCCCCGCCAGCTGTGGCTGTGCCGCTTCTCAGCTTGGGCCATTTGCAGTGGCCTGGCCTG
CCATAAAAGAGCATCCACCATTAGGATGGAAACGCAGCTGTTAGAAATAGAAGCACCAAAGTGAAACTGTTCTTGGTCC
CTGAGGCCACCTGGTCATCTTCCCCTACATTGTAGCCTACCAGAACTACCTGGGCTGTAATCTAATATTTCTGAAAAAA
AAAAAAAAATTAGGAAACCCTATAAAAATAATACCGTGCCATGAGTATTTACATAAACAGTGAGGTTTGAAATAGGTTT
TAAAACAGTTAATTAACATGGTTTCTTAGACATCAAAGAGCTTCCAGGTTAAAAAAATTGGGGAGGGGGGTGTATCCTT
TTTTACTTCAGAGATATTTTTGTTTCCTTTTTGGGAAAGCCTTTACTATCTTTTGCTAAATAAGCAAGGAGTTGGTCTG
GAATAATTTAATTCGCTTCCTGGTGGAATGCAGCTTTATTTTCCTTGTTTTAAGGATTGAATGCATCTATGTATTGATT
ACTTTGCTGTTTCAAAAGTTAAATTTGATTTTATAATTTAATGAGGCTGCTTTCTTTATTTTAGCATGTGGTTTTAAAA
GTTGTTTTTTTAAAAAAAAAACAAATGAGACATCTCTTTTTTGAGGTAAATCAAAAAATCAAAAGCTTGAGGATTTATA
TATAATTTTTTCAATTCTCAGTTTATCTTTGCCAACATTAATGGATTTTTTAAAAACCTGGACAATTACTAAAAATTGT
CACAAATAGCAGTTTTACTAAAGCTTTGCTTTTATTTTGAGTTAATATATTAGATTTAGTACATTTGTTAAGTAGTTAA
GGAAACTGGCAGTATTATTTTTTTCCCAATTTAGAATCTACATTGACATTTGTAGATTCTAAGTTAGTATGGATCTCAA
AATTTGTGCTTTCAATTCACATTGAGGGAAATAAGACTGAGCTGCTGTGTATTTTCCTTTCTTTTCAATGTATTTTGCC
TTATAGCTGCATAAATAGAAAAGTAATTACTTAAAAATAAGTAATTTACTTACTTAGCAAGGTTTCTGATGGTAGCTTT
TATTAAATTCTCAACTAAGATAATTATTGCAGAGAATTTCCCAACTTAAAGCAAACACTTCATTAGGTTCAAGATAATT
AAAAAACACAACCATTTTATACTTGCCTTCATGATCTTTCTGTCTCCCTCCTTCCCTCTCCCTCCTTTTCTCCCCCTCC
CTCTTTCTCCCTCTTTTCCTCTCCTCCCACTCTCCTCCCTCCGGCTCTCTTTCTCATCTCTCTGCCAGCGTAAGTGTAA
TAACTTCTTAACCTTATCTCAGAAGATGAATACTATGCCCAAACTAGGAAAAAAATCCCACACTAGAATGATGTTGCAA
AAATTGCCATAAGATAATGATGACATTTTACCATCCTGTGACATTATCATTATTGATTCTTCCTCTATTTTATTTAATG
CCATACAACAATAGGCCCTTTGCTGGATTGAAGTGTTGCTAAAATTCTAGTGTGTTTGTTTTTTAGATGAATGGCAGAA
TTGCCAACAGGAAGCTTTTCCAAAATCTCCATTGTTATCCAGAGAGAAAAGAATGACATAGCAATGTTTTTAACATTTC
AACAGCATAATTTTCTTTGTCTCTGGAAAACGGGAAGCTACGTATCATTAGGAATTTCCTGATTAATTTCCTAAAGTAT
AAGGGTTCTAGTGCTATACAGGGAGCAACCCAGGCGACCTGCTCATTAACACTAAAAAAAAAAAAAAAAAAAAAAGAAA
AAAAGAAAAAAATACTTTCCTTGGGGACAAGCAGGATTTCTAAGGGCTTGCTGGCAATGTTATTTGACTGTACATAGAGG
TTTCCAGCACAGATTTCTCTTCCAGCTCAGTGAAAATAAGAGTCCAGGCAGCCTGGCTTTAAATCAGTTGATAGAAAGG
CAAAGATCTCAGAAATCTGGTTTTAATTTATCAGCTTTGAGTTGCTTTTTCCTTCACCTTTTCATGCTTGTCACTGGCT
GCCTAACCCAAGTGAGGCAGGTTTCCTGTAGATCCCATCTGTCTTGCCGGCACCTCCTGCACTTGCTGGCATCCCTTGC
CCTTGTTGGCAACTTCTGCATGCTGGATAGTGTCCCGTCAGGTCTAGGATAACGGTTCTCAAAGGGCAGCCTGGTGCCA
TTGCTAGTCCACAGATAGACTGCACTTTGATGCATTAATGATGTTTAATACCACAGTGACTATATTTTTACTTTGTTAT
ACTGATCATTGTTGCTGCTTATAAGAATACAATGGGAGACAGGATTCTGAGGCTGGGTGCTGGGGGAAGCCATTTAAAA
TCTGGCAGCACTGGCGGGAAAGCATACCTGGTGCTGCCAGGTTGGAGCTTGGTGCCCTTTTCTGCCTTTTTCATGACAC

Fig. 6.89

CTCTAAGGGGGAGCCATTGTCCTGCTATTCTCTTTGGCTTTCTTTTTAAGGGGCTGTGCACCCATAGATTTGCTGTAGC
CAAAACTTACAAGACCGTAACTACACAGTTCAACCCTACATACACCCTGTGATATCTCTGAACTCTTCTCTACTCCTCT
CTTCCCTGCTCACTTGGCCCCAGCTGTGCTTCAGACACACCAAGGTACTTCCAGACACTTACAGGCTTCACTCCTGCCC
CTCCATTAAGCTGTTACTCAAATGTCGTCTTTTCAAAGAATCTCTTTCTGGGCATGCTATCTAAAATTGCAATCCCTAC
TGCTAATACACTCTATTTTTGTCTTTGCACATATCACCATCTCACAGAATGTATTTTACTCACTAATCACTTACACATT
TTACTTATATTTACTTATTAACTTAGTATCTGTCCTCCCTCTGTAGAATATAAGGTAAATGAATATAGAGGTTTTTCTT
TTTGTTCACTGCTGTATTTTGCATGCATGGAACAATGCCTGTCACTTAATAGGTGCTTAATAAGTATCTGAAAGAACAA
ATGAACAGTTAGAAGCCCGATACATTTATTTCTTAATCTGGTTTATACCCACAGCAGCAGAAATGCTATAATGACTTGC
CCCATTTAAGTTTGGGTCAAAATTCAGTATACTGACTTATTAATGAAGTCATTTGGAATGAGTAAGAGTCCTAGGTCTA
TGTCGATCACACTGAAATAAGAGCAGACCATTGATTGATTCAATACTAAATGTGATTGTTCTATAACTTTCTGAACACT
TCATGTAACAGCTCTGTCTAAATCTCAGAATCTCATTTATACCTCATCACTGAATATTTTTAGAATATTGAAGGAGTTT
ATTGGGGAGAGAATGTTTACTATATCTCAATCACTTCTTATATATGATCTATTTTAATTCTTATAAAAACAGTGTAAAA
ATACATTATTCCTATTTGAACTGAAATTCTGAACATCTTTTTAATTACTCAAGGTTTCACAAATTATGAGAGAAGGTTA
TGATCTTTTCAAGTTATGCTGTAAAATAAGGACTTCTGTTAGAAAACAACAAATAAATGATTAGACTACCCTCCATGTT
ATTCATCCTCTGTTAGCTGAATATTCGTCTTAAAGTAGGGCCCTGCCATGCCATTCTCCTGCTAAGAGTCTGCATTGGT
TTCCTACTGGATCAAATCCAAGCTAAGGCACTCAAGTGCCAAGCAAGGCACTCAAAGCCTCATATAGTCTCATTTCCCC
TTAACCATCTTAGGTTATTTACCTCAGCTGCCTGTAACAAATCCTCTGCTCTAGTCAAGAAGTTTCTCTTCTTCTTTTC
TTCCTTCCTCCTTATTAGCCACCCCTCCTGCGTTAGGCACCCGTTTACTAGTCTGCCCTGCTTCAGGGACTTCTTATTT
CTTCTCTGATGTTCCTTTCAGGCATGAATGTCATTCTTTTTTTCCTGCTTATCCATACACCTTATGGACCTATCTGTAA
GATCCACCTGTAAATTACACACTTTGTTTTCATGTCCCTAGCCTACAACAATAATCTCTCTCATTTTTCTTTTCTTAA
TTACTTTTGAACTTATCAGGTGTACCACACAATTTATTAATCCTTATTTAATTACAGACTGTAGCATTCTATAATTGTT
TCTAGTGTTAGCCTTGCTCTCTAAACAAGATTGTAAGTGCTTAAAGAGATTTATGTCTTATACTTTCCCGCCTATACTT
TGTAGAGTAGAGGTTGTTTTATTAAGAGATGCCCTACAAATACTTGGCTTTTCATCCTGTATAGGTATGAGTCCTGCTA
TTAATAGAAACAATGACATCATTTTAGGATAGATAGTAAAATGTGGTTTATCCAGCAGCAGATCCTTCCAATCTGATAT
TAGTTTTATGCATTTTATGAGCACACATATTTCAGAAAGTCACTGGAAGATTTTGCTTCTGTTATATTTGAAATTTGA
ACACCAAACTTCCACATTGTGAAATGTTTGCATGAACACTTTTGAGAACTTTAGATGAAAGGTGTAGTATAAGTACAAA
GTATGCATCTTCAAAAAGCAAAATGAAAATGCAAATATTTAGAAATTTCAAAACAAAGCATGGGAAATTTTGGGTATAT
TGCAAGGCCAAATAATTCATCATTCCATTTCTAGAGCACTAGAAAAGGTTGGGAAATCTGTCCTTTGAAGCCTTAGAGT
ATGTATATTTTTCTCTTTAGCCCTGTGCTGTTTCCTTGAGGATATGCCTGTAGCAATAAAGGTAATCGGGAAGGCTTTG
AATTTCTGAGACAGTGTTAAGCATTTTTTAACATCAGATTAAAGGTGGCAAAAGCTAGGGATGATCTACAGGTGACTTC
AAATCAGGGGTTACATTGCAAGTCCGTCTTTTGGATGAGATAAGTCAAAGTGCCAGTGAATGTGTTTTGGTGGCAAGAA
AAGAAGCTGAGAGGGTCAGGATGCAGAAGTCAGCATTTTTTCAAGAAACACTGGGATAGAATTTCTTTGTGTGGAACTG
TACCATGTCTGGAGATACCTCACTTAATGACATTAGTTGAATACTGTGCAGTTTGTCCAATTTTCAAAATGAAGTACAT
TTATGATTTTTCCCTGTCATGCATATTTATTGCCTTTTCTTTTTTTGTTTTATTCCTTGAGATAGGGTCTCAATTTGCT
GCCCAGGTTGGAGTGCAGTGGGGTGATCTCCGCTCACTGCAACCCCCGCCTCCCAGGTTTGAACAACTCTCCTGTCTCA
GCCTCCCGAGTACTACAGGCACACATCACCACGCCTGGCTAATTTTTTTTTTTTTGTACTTTTAGTAGAGACGGGGTTT
CACCATATTGGTCAGGTTGGTCTCAAACTCATGACCTCAGGTGATCCACCCGCCTTGGCCTCCCAAAGTGCTGAGATTA
CAGGCGTGAGCCACCATGCCCCACCCTATTGCCTTTTCAGGAAAGTTTTTGGAGTGTTCTGAAGGTTGGGGAGGATCCA
CATTCTCTATCTTTAGAAGCTTTCTCTTTAGTGTCCCTTTGAATGCTGGCTTCAGTTCAGTGGATAATAGGTGGATCAG
GCTGGGTGCATTTTTAGATTTTGTGGTATCAGAATTTGAAAACAAGATCTGCTCCAAGGGTAGGGGCAGGTCCCACTGG
TAGAGACAAAAGGATGTTTTGCCAGTTTGCAAGCAGAGTGCAATGTACTGAAAGAGGAGTGCTAAGTGCAAAGTTGCAC
ATCTAAGCCAGCTGTCACTGGGCAAAGTCCTGCAAAGTCTCACAGGTGGCACCCCATGGCCGGCCCATCACAGGAAGA
CAGAGCCTGAGTGTGGCCAGTTTGTGGTGCTCCAGGCAGTGGGTCATGAAGCTGGGCTCAAGTAGGCCTGGCAGCTGAC
AGCGGACCTAGCCTTTGAGCTGGGGATCAGAGTTGCAGGCTTAAAGGAGCTCTCAGGCAGAAACCTGGAAGACAAGGAA
GGTGGGGGAGTATGATAAGGACCAGCTGCTGAAAACGGGGCACACGTGGCTACAAAAATAATAATAATCCCCACAGATA
ATAATAATAAAGATAGCTAACACTTATTGATGCTTACTATATGTCAGAAAATGTCCCAGGTCCTTCACACATTTTAACT
CTATCAATCCTTAAAGGCTGGTACTGCTATCATCCCCACCTTATGGGGGAGTAAACTGAGTCCCAGTAAGGTGGAATAG
CATTGCAGAGCTACACATCTAATTAGTGGTAGAATAGACATCTTAATCCAAGCATTCTGGGTTAAAAAGTCTGTGTGTT
TATCCTCCAGGCTATCCCACCTTCAAGTACTAAAAGGTGATACAAAATAAATTGAGTCTTTACAGTTTATTGGAAAGGG
CAAAAGCTTTGAGCTAGAGAGATAAGGATTTGGATCTCACCTCTACCACTTGTTATTTCTGACATTTTGGGAAAATCAT
GTGATTATCTTAGATTTGCTATATCATATGTAGAATGCGGGAAATGCCATCCAGCCCATTGATTTTGAAGAACTAAGTG
AAATAATAGATACAAGCTAATTAGACTTCATCTGGCAAGAAGCTGCCACTCAACAAATATCTGCTTGCTTTCATTCTCT
AAATGCCCATTCGTATAGAGCTCTTTCAGTTACTTCCGATTGGAAATAGGATTATTCCAGGGCACAAGTCTGGGCTAAG
CTTGAGATAATTAGGGAAGCCACAGGTTTCAACCCTTGTGAAAAGAAGAATAGATAGATAGATAGATAGATGACAGATA
GAGACAGATAGATAGATAGATGACAGAGAGATAGAGAGATATAGATTAGATAGATGACAGAGAGATAGAGAGATAGCTA
GCTAGCTAGATAGATAGATAGACAGACAGACAGATAAAAGACACCACAGGCTATAGTGAGAGGTGAGACAGCACCTGGC
TGTTTCCTGCCTGCTTACCCTTAAACAATGTGGTGCTTTCTTCTTTTAATTTACAGAAAAATGTGCTGGCAAGTGCTTT
TGTATACAGTTAATTCAATCAATGAAACTTTGCATCTTAAAGATGTAAACTAATGCTCACTTCAGGAACAATAATTGGC
AAATTTAAAAATTATTCATTTTTATAAACATGTTAATCTTTTGCTTTCAAGATTTTTTGTGTTCATTAACTTTGTTAGT
ACTCAGAACTGACTGAAATGATTCTAAGTTTGAATTTCTATAATTATGCTTGAATTTCAAAGCCTACCTTGCATAGGAT

Fig. 6.90

GGTGGCTAGGGCATAAATATTACATCCTATCTCCAGTTAAGGCATGGATACCTGCACCATCTTTCATATGAGAAGCATC
AACACAATTCTGACTATAAAATTTCATGATCATTCTTTCCACCTACAACTTTTTGGATCTTTAGCTACGAATTACATT
TAAAGCTATTACTGTATATACTTTTTCTGTACTTAAAAACATATTTGATAGAAATAGCCCACGTGTTCGCTGTAGAAAA
ATTAGATTACATTAGGCACAGAAATTAAAGGAGAAAAGCCACCCATAATTCCAGTACTAAATAGTATCAAATTTTGAGG
TATATCCTTCCAGATTATTTTCCATAGATGTTGAGGCATAGTACAGAAATGGGATCACACTCTACATACAGTTTTGTAA
TCTGTGCTCCTCAGTCAGCTATTTATTACAATAAACACCTGTATATTCATATACATTATCATCTGTAGTAGCCTCATTC
CATTGCATTTTTATAGCGATACTAATTTAGGTAATCTGCTATTGTTAAGTATTTAATTTATTCACTAGGCCGGGCATGG
TGGCTCATGCCTGTAATCCCTGCACTTTGGGAGGTGGAGGCGGGTAGATCACCTGAGATCAGGAGTTCGAGACCAGCCT
GGCCAACATGATGAAACCCGTCTCTACTAAAAATATAAAAATTAGTCGAGCGTAGTGGTGGGTGCCTGTAATCCCAGCT
ACTCAGCAGGCTAGGCAGAAGAATCACTTGAACCTGGGAGGCAGAAGTTGCGGTGAGCCAAGATTGCGCCACTGCACTC
CAGCCTGGGCAACAAGAGTGAAACTCTGTCTCAAAAAATTATTCACATTGTTTTATTATTATGAACAAGGCTTTGACT
GTCATCTTTGCACATCCATGTGTCTTTTTTCATACTGATTCAAGGGGCATGTGTGTTTATCAGGCTTTTGATGTATTT
GCCAAATACATCAAATATCTAGAAATAGCATGCTGACTATACTCCCTCTGGCAATAAATGAGTGCCTCAAAACTGTATT
TTTTTTTCTTTTCATGTACCATCTGATAGACAAAATAGGCATCTCCTTATTTTATTTTTTATTCATTTGTTTTCTCGCA
TGGTTGATTTTTCCATATCATTAATTTAAAATTTTTAATTTATCCTTTTTTGTAAATTCATGATTATTTTCTCTCTCTC
TACTGGGACATATTTATTTCCTTACTGATTTTTAAGAGTTCTCCATGTTGTACCTCTTTAACTATAAAATATGTAATA
TGTAATATTTTCCCAGGTTGTATTGTATATTAAAATTTTTGATATATAGAAGTTTTTGTTTTAAAATTGATTAAATCA
CAGGCTGGGGATGGTGACTCACACCTGTAATCCCAGTACTTTGGGAGGCCAAGGCAGGCAGATTACTTGAGCCCAGAAA
TTTGTGACTAGCCTGGGATCCATGAGGAAACTCTATCTTTACAAAATTTTTTTAAAAAAATTAGCCCAGTATGGTGGCC
TGCACCTGTAGTCCCAGCTACTAGGGAGGCTGAGGTGGGAGGATCACTTGAGCCCAGGCAACAGGTTTGATTGCACCAC
TGCACTCCAGTCTGGGTGACAGAGCCAAACCCTGTCTCAAAAACAAATAAATAGATAAATAAAATTAATGAAATCATTT
TATTCATAGTTTATGCACTTAGAAAAGCATCTGGCATATATAGTGCTCAGAAAGATCTTCCTCACCCTTAGAGAAATAA
AACGTTCACATATATTTTCTTTGAGTATTTCCATAGCTTCCTTTTTCATATTTAAAGTTTGAATTCATCTGGACTTTAT
TCTGGCATAATATAAGTCTTAAGGCTTATTTTCCCAAATGATTATCAAGTTGTCCCAGTATAATTGATTATCCTGTGTT
CCATATGCTGATAAAAAATGTTAACTCTGTCAAATATCAAATTCTTATGTATAGTTGTATCTCTTTGGTGTTTCTGTTC
AGTTCTATTGGATTCTCTTCTAGTCTGGTGCCAGTATCAATTATTATAATTATTACAGAAATTACTCCTTTGTTAATAT
TGTCTTTCAGAAATGTTCTGGATATATTTACATTTATTTATATGAGGTCTTAAAATACACAAGCAATGGGAGACAAGGG
GGAATTGCAATTGGGGGTAAATAAAGCAAGTTTGGAAAAATGTTGATATTGTTGTAGCTGTGTGATGGGAATGTGGGAC
TCATGATCCTATTTACTCTGCTTGCATGTATGTGTGAAAGTGACGATAACAAAACTTTATATAAATAATTAGGTAAATA
ATTCAGATCGGAACTGCATGTAATTGGAATTGCACATGCTTTCCTCTTTAGAAACATGTTTTTTAAAAAAAGTCTCCTT
TTATGTACTTCAATGAAGTTTTGTAGTTCATTTCTTTATATAGTCCCTCTACCTTTCTAAACAAACAAGCATACAAAAC
CTAAGAAAGCTTCTTCATGCCTAGTTTTTAAGTTGTGTGTGTGTGTGTAGCAATTATATTTCAAATTGTTGGTATATAG
GAAAACCTTGATTTGTAATCAACCCAGTTACTTAACTTAAAAAAAAAAACTCTATTTCTTTCTTTTTTTTTTTTTTTGC
TTTCTTTTTGGGAGGTTTTTCAAGTAGAGAATCCTGTGGTCTTCCTATAGTGATAGACTTGCCTCATCATTTTCAATAT
TTATGATTCTCCTTTATGGGATTTATTAGCTAGCACTTTAAACACATTGGCAACTGAGGGTGGTGGTAGTGGGTATTTT
TCTGCTGCTCCCGGCTTTAATGAGAATGTCTTCCATCTTTGATCACTAAGCAAGACATTGGCTATTTGAGAAAGATATG
ACTTTTGGTCCCGTTTTATTAAATCTTAAAAATCAGGATTCAGTGTTAAGTGTTTTCACATGCATTTTAGACATTCTTA
GAAAGGATTATGTGTTTTTCTTTTTCCCTTGGTCTATTACTTTAATGAGTTATATTAATAGGTTTCTTACTATTAAACTC
TTCTCACATTCCAGAGTGTGTAAACTCATGAATAATATGGATCTTGTGTACTGTCTTACAGAAATTCCCTAAATTGATG
GCATTTCTCCATGAGTTTTCTATTGTTTCTTGCTTCTAAGTGAATTTGGGAGCAAGGAGAGTGAAATAAATGGACTGAA
ATTTCTATCTTATACTGGAAGTCTGGCATACTTGCATTGACTGTCATCTACAGTAGAGTCAAATGTACTGACTGAAATT
CAGCTATGGTTAAAGAATGTGGCTTTTATTTCTTATAGCAAATTTTCTAGCTCTAGATTCTAGCTGTAGAGCCATGTTC
CCATTAATGAGGTGGGGAAAAACACCCAAACTTTAATTCATTTCGGGATTAGAATAGTTTCTTTTGGGTCAGTATGTAA
ATAATTGAAAGTTGAGCTATATATCAGAACTGTTTTTCTCCTCTTCAATGACTTCTGATGTCTTCCCTAAAACATAAAA
TAACTTCTGGGTGCAGGAGAAAACATACATATCCTGGATTTATACTTACTAGCCATGTAATCTTGTGATGATTATTTCA
GCTTTCTCTACCTTGATTTCTTCATCTGCAAATTGGATATTAAAATGACAACTATTTTACAGAATTTTGTGGGAATTGA
ATTAGTTAATATATTTTAAGTGATTAGAACATTTCCTGGTACATAGCAAATGCCCCATAAGCGTTTGTAATTATAATAT
AAAATTATGATTGTTCTCATAGTGTTAGGAGTGAAGTGGACTTTGGTTCATGTGCCATTTTCCAATTGAGTGCTCTTGG
GATGATTTGGTGTCTGTCTCTCCTGCCTCCACTTTGAAGTATCTGAAGCTGGTTTAATACTCTAATTCTGTTCTCTTGC
CATAAGCAAAGAATAGGAATTACATCTGTTTTTGCCAACTAGGTTGGCACCCAACTCTTGCTGGGAATATGGGGTCTCT
TTCCTTAGTAATATTTATGAATGAGATAATCTGTAACAATATCTTGGTATGGTATGATATGTTGTGACATCATCTTCAT
CTTAGCAGAGTTTGGATGAGTTAGAAACTGAAAGACCATTTTAATACTAAGTTTCTTTCATTCAGCTACTTCTACTTCA
GATATTAAATTTGGTTTTACTTTTTCATTTATATGCTTTCGCTTATATTACTTCTTTAGTGAATTAAAGAGATTTTTAA
AGAGAAAAATTCTAGCTTCTCAAGCATCATTGTCCTTCTGAAAAATTGAACTAATAAGCCCTGAGATGATTAAAGCGTAG
CCGATCCTTAGAAAAGAAATTGCCATTTTCCATTTTCACTAAGAAATTCATCTATTAGCACAATAATATTTATGAGATT
TTGCTGTTGTGCAATCCCTCATTCATCCCTTATCACCATTTTGAATGAAGAGAGAGCAAAATCTAATTCCAGGTGCCAG
ATGGGTGCCACACAAATGGCAATGATTCAGCACAGGCTCCAGTTACAGATACCAAGCTCTGAACAGCTATTTGGATAAT
CAGGAGATCTTGGTGAACTGAGGTGAATTTTCTTCTGTGTGTCAGGTCCTCCACTTGTTCTTTCTCTATATTCAGAGCC
TTTGAATTTGCTATGAAGCTTGGTATCTGCTTTGTCCTAGCAGTTAAGAGTTGGTGTCACAATTCACATCTTGCTGGAA
AAGTGATGGGTTCATTTTGAGGCTCATTGAATGAGTCCTTGAAGAAGGAAGCATCAAAATGAAAAGGATTTCAAATCTC

Fig. 6.91

TGAGTATAAGGTTTGAAATGTTCATTTGACCTCACTGATGGCTGTGGAAAAGCCTAGGCTTGGACACAGAAACTGAAGG
TTAAATCTTGTACTATAATTGAGTGTCTCTAGAATTAGTACAGGCTTCTCTCATTTTGTGC GTGTAACAGCAGACTA
ACAATCCTGGGAAGAGTGCATTTTTAATGAAACATTTTTGCAGGGTTAGTAAAATCCAGATCTCCTAAAAAACCCAATG
CTTGCTTACTCTAAGATGAGAAGGATAAGCCAAATTCAAGGCTTCTCACTATGCCACCAGGTTATACAATAAATTTTGA
GCTCCCCTATCCTACATTTCGAAGGATTAATTCTAACTGTAATTTACCTTGATTCTTAGAGCTCGCTGAGGCTCTTGGT
GTTAAAGACATATCAGGGGACAAAGTAATAAAAAGCTTACATTTAAGGAGTGCCTTCTTAGAGTTAGGTACAGTGGTTA
TATACGCTGACATGTAAGTTCATCATTTAGTTTACACAGTAGTAGCCTTGAAATGTGAGTTTCAGTATCTACATTTATC
TTGATCCTGACATTGACATGCAAAAGGGTTAAGTAGTTTCTCATGGCCATAAAATTAGAAAATGGCCAAAACAGAATTT
GACTCCAAATTCTTTGGAATATGGAATATGACTGATTCCAAAACCTAATATTCCACTGATTAGTTTTGTCTCTTCATCT
CTCCGAATCAACATCTCTTACATAAATTACTTTTGTTTAGGGGATATCTTAGAGTTCTTGTTTTATAATGGAGTGAGAA
AAAAATATCTCCTTAAGAACAAAGGAATTAAAACAAGGCACTACATTGAAGGAGTTTATTTTATCTACCACATATACAC
TGAATATGAAAGAAAAAGAGTATATTGAAAATGATTCTCTAATGGCAGAAAAATATTATAATTTATGCTGTACTAGATC
TTGATTTTGTTGCTTGTTATTTTTAATGTCTATAATAAATTGGTAAAACAGTAAAACTCTTGAAAAGCAAAAAAAAAA
AAATCCAAATTCTTTGCCCACTTTTTTTTCTGCTGTTATTTTA TTTAATGTAAAAAAGCCAACTGCTCTTTATCATT
CGTTAGAAATTTGCTCCAAACTAAGGGGCATGTACAGTTTTCAATTTGTGGGTGTTAATGACTCCACCACAGTGGGCTC
ATTCCCTTGCAAGGGCGCTAACGGCTGTTGCTTCCTAAGAGACAGAGGATTGAGAGGTTTTGGTTTCTACTCATAGTC
TTTGGTTTCTTGGCTCTGTTATTTTCCTTGTTTATGTTTCTTTTAATTAACATTGAGTTTCTTCATTTTATGCCTTGCT
TTTCTTCTGTTTGTACAGTCTGCCGGCAATGACTCCTTGGGTAGCACTTGTTAATTAGGGAGAAATGATAGCTTGAGGG
TACTTCCTGACTTACTTGGTGCTAGGATAAAAGTTGTTCTACTGAAGCCGCATTAGAACAACTTTTATGTACCTACCTC
AAGTAAGATCTGCATGATGCTCTACCAATTCCCTTTTGTCTCTTTGATCTTTACTTTAACTCTGGTTTATTTTATTTAA
ATTCTCATTGTGTCCCAAATAATCTAAACCAAGAGTATTATTAGGTCTTAAAATAATTCACTTGTATTTTTCTTAAGGA
GGCTATTCACAGTAGATTTTGTGGGAAAATAAAAATTAGAATTCACGGCTGATTGACTAAATAAAAGCAACTAAAGAAC
CAAAGGGTATGTTGATTTTAAAAAGGAACTTCTGAAGGTATCTGGCTCATAATTACCCAGAGATAATAATTTTGGTTCT
ATAGCTCAGATTGAGAAAGCTATACATAATATAATGCAGGATCTATAACATGGATTGTCTTTCTCAATTTCTCACTATT
CCTCACTCTCACCTTTCCTTCTCTCTTTCAGCTACCTATTCCTATCTAATCTATCTATCTATCTATCTATCTATCTATC
TATCTATCTATCTATCTAACTGTCTATCTATCTATCTATCTATCTATCTATCTATCTATCTATCTATCTATCTATCTGC
CTATCTTGTTTTTGCCAGAGAGGCAGAATGGTTCATGTTTAGAACCTAGTTGGTCTCATGATACAAAGTACAGACTAT
GATTTGTAATTAATGATTTGTAGACAGCAGTCTCTACATACATTCTACAACCCTCAGTGAAATGCCATTTCTAATACTT
CTCAAATTTACAAGTATTCAGACAGCAGATTTTACTTTAATATGGGACAAAAAAACATTAAAAAGAATAAAAGGCTCAG
TGCCTTGATGAACTCCACTTTTCTTTGTAGCTAGTAAGCAGCTTGCACCAGAGATTTTATGGGGATCATCTTGCTATCA
TTTTATTTTCCTCATGATGACTCAGGGAATTTTATCCTGAGGCTCTCAATGGATCTGTTATAGTCAAGCTGATGATGAC
ACATCTCAGAGGCTCATTCCATATTGGGCCTCAGGCCAGCAAACTACGCACCATGCTGTCCTATGATTCACAGGACGAA
ACTGCTCTAGACACCTCCCACTGCCCAGGCAGGAAGGGCACCATAATGAGGCAGTGGGAGGGTGTATGGCTAGGAAAGT
TGCTAAAAGGAAGCTTTTGTTGTAACTTTCTTCTCTGCTGCAGGAGGCTAACACCAAAGCAAAGTATTATCAAGCAACA
GACCCTACATTTATGCAATATTAATGAGAAGGTCCCTGGACTTTTAATTAGGGTGGAGAGTTGTGTTTTAGAGAGCTGA
AATTATTTTAGGTGGGAGGAAATGGAATCCTGGGAGAAAAGTAATTAATTTATAGCTCAATGACTGAACTGTGCCATTT
TGAAATACTGGTCAAGGTGAGCGTTGAAAGAGTGGGTACTCTGGCATTTCCATACCCTTGGGAGTGAAGAATTAGGCTA
TTTGGGGAGCCAAATGATATGCTTGTATTTCCAAAAATGTCATTTATTTTGTAATAAATTTGTGCTGAAATAAAAAGTG
GCTTGTGTTCTCTATGTAAGTGTGACCGCCTGCATATTATTCATTCAATGGTCATTTACAGCATACTTTATAGGTGTGG
AATTCTACAGATGCCTTTTCTACAGGGACAAAGTTCTGACTAGATGCACAAAGGAGATGAAAAGAACCGTCAATGTCTA
CTTTCATGTTCCTTTCCCTCTACGTGGGGAAAAACATCAGTATATGAAATGGCATTTGAATAACTTAAAGAGAAGTGTT
CACAAGAGCAGAATAACTCGGAACAGGCTTTGAAGCCATTAGGTGTATGAATCATTTACTGCCTCCTCGGGGGTCCCAC
ACCAGCTATTCTGAGATTCTGTCAGAGCACTTAGTGTATTGTGTTATTTGTCTCTGTCCCCCACTAGAATGAGAGTTCC
ACGTGGAGAGAGATTTTTATCGTATTTATCTCTGCATCCCTGGACCCTAGAGCACAGTTCATTGCATACCACAAGTGTC
CAGTAAATGTCTGGTGAATGAATTAGTAAAATAGATTGCTGTTATCATTTTGGAGGAAGAGAAGGGAATAGAATGATGG
TTTTATATGGACATAAACTACAAAGGAAATGATTTGATTCTTTTCAGTCTGGAGACAAAATGTGCTTTTCTTCTCTTAA
TTCTCTGTTCAATTCAGCAGAAATCAGTAAACATTTACTAAGCATATTTTATGTTGTAATTGTATATATAAACATGAAA
TGTTTTCTAACCTCAAGGGACTTAGAGTCCAGGGCAAGGTTGGCAGTGACGTACAATTAAACAGATCATTTTGATGTAA
TTTGACAAATATACTGTGGGAGGCATTCAGGAGGCATTATGGAGGGAGTAAAAAGGGATGTTAGGTCAGGCTGGCAGTG
GGAATGGGGCTGGGATATTGGGAGAATCAGGAAACTCTTCCAGGAGGAGATGACACCTGAGTTGAGTCTTGAAGCAAGA
CATTCCCAAACAAAGGAAGAAGAGCATGGCTATGGGGTAAAGGAAGAGGGGAAAAAGTCCAAGACAGAGGACAGGGAGG
TGAGAAACCGTATGGCGTATGCAAAGAATTACAAGTGGTTCCCTATAGCAAGTGAGTGAAACAATGCTGTGTGGGAGGT
CAAGGGATGATACTGCAAACAGCAGACAGGGGGACTCCTACTTACCATGTAAAGGAGATTTATTTGGACTTTATGCTGT
AGGGGATAGGCAGCTATTGATAGATTTTAAGGTGGACTTGAAGTAGGCAGTATTGGTGACAAGAAGAACATTAGAAAGT
GCCTGAATTTGTGTAGATAAAACTCTGGAAGACTGTGGTAGTGGTAGACCCCTCTTAGTGTATGAGATATGTATGTGGC
GGGTTAAAGTATACACATGGCAGCTAAAACAATGAAAACTAGTGGATTATCAAGAAATATAATCTAGAACAGAGGCTCC
CAAGTGCCAATCAAAAGTGGTGGTGCTCTTCACCCTTCATGATTATTATCTGGGGTATTGGTCAAAAGTAGATTCCTGA
GTACCTGTCCTCAAAGTTCTGATTCATTGGTGGAGAGTCAGCCATCTGCATTTTATGGCATTCCCTAGCTAATTTTGAT
ATGCAGTCATGTTTGGGAAATGCTGATAAAAATAATATCAATGGTATCACTCATATTTTAGATGTAGACAAAATAAGAA
GACCCCGTGAAGTAGCAAGAAGTTGAGCAGTCAGTTGGAGAACCAGCAGAAGACAGAGGAAGAGGGATTTTCTAGAAGG

Fig. 6.92

CAAAACAATGTGATAGCAGAGAGTTCTAGTCAGATAATTTGTGAAAAGTTTGTTAGATTTTGTGATATGGAGGTCTAGG
ATCTTTAGAGAAAGTAGTTTAAGTGTGGAAGGAGTAAAACTTGCTTGCATTGGGTTGAGGGGTAGACAGTGGGAATAAG
GAGGTAAAGAAAGATAACAGACATTTTTTTTCAAATAGCTTGATTTTGAAGAGAAAGAGAATGATATCTTGAGGAGGGA
GAACATAGGGTTATAAGGATAATTTACTTTTTACAAGAGGAGAGACTCAAGAGAGTATTTAGATCTTGAGGGGAGAGAA
CCAGTTAGAACTAGAGCAGATGGAGGAGGAAAGACAGGCATAGGTAGAAGACAGGACTCCTCATAGGAGGAGAAACACC
TCACTCATCCTCTCAGACAGCGGGAAAGGAGGTAAGGGAGAGTAAGCTGGGTGAGGAAGGAAGCTGAGGCATAATTTTT
GATGGGATGTTCAGAGAGACATTAAGAGGCTCAAATAGTTGAAAGGGTACAAAGCTGGTTGAAACTAAACCTAGGTAAA
GAGCCCTATTGTTAACTTACTATTTTAAAAATATTTTTCTTGAAAATTGTGACAGCTTTTTCTTTTCTTTTTTTCTTTT
TCTTTCTTTTTTTTTTTTTTTTTTTTTTTGAGACGGAGTCTCGCTGTCGCCCAGGCTGGAGTGCAGTGGCGCAATCTCG
GCTCACTGCAGGCTCCGCCCCCTGGGGTTCACGCCATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGACTACAGGCGC
CCGCCACCTCGCCCGGCTAATTTTTTGTATTTTTAGTAGAGACGGGGTTTCATCTTGTTAGCCAGGATGGTCTCGATCT
CCTGACCTCGTGATCCACCCGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACTGCGCCCGGCCTGTGAC
AGCTTTTTCCACCCATATTGCATTTATTTTCTAACTTATAATAATATGAACCTATTTTGTAGATTGAGCTCCTGTTGGT
CCTATAAAACCCAAATCTCTTGCTTGCTGATTCAGTTGTTTATTTGCATTTGTCTCATGTTCCATGTGTTTTGCATTCC
CGGAAACTAGCACAGGCAGGGAGGCCTCAACACCTAATTTATTTCCTAGGTGAAGTGGAACCTGAAGATTTTCCTTTTA
TAGACACCATTACTAGATCTGAAAGAAAGAGGTAAGTTAATTGACACCCAAATGGAGGATGAAAATAGTAGAGTCAGGA
AGAGAGAACTTAATTTTAGCCATCTGTTTTCCAACTTGGCTTTTCTCAGTCTATAGATTCCCAAAAACAAAGTCTAACA
TTGGGTACGAAATAGCAAACTTGAGCACTGAAAAACAAACAAATGAGAAAGCAATCTAACAATTCCACGAACAAAAAAC
TAGCACTTTTGTATGTCCTCTGAAGTAAGAAGAGATGAGTAACTTTTGTATTCACTCAAATACTTTCTTTTAATCCAAC
TTTTAAGTATTTTTTCTAAGTGTTGAAAATTTGAGAAGCCAAGAAACATAGAAATGAGACAGAACTACCCATAATACTG
TACCTAAATATAACTACTAATATTTTGCTAACTTTTTCAGTCTTTTCTCTGTGCATAACTTTTTATAGGATAATATTAC
ACATACAACTTTAATCCTGCCTTTTTCACTTAATATTATAACACAAGCTTTTTCTCATATAATTGAAATATCTTGCAAA
ATATATGATTTTAATTACATAGTACATCATGAAGGTTCTCATATTTTATTTAGCAATTCCTTTACTATTTGACATCTAA
ATTGTTTCCAGATTTTCATTATTTTAAGTAGCACTGCTGGAATGTTTCTGCATACAAAGCACTTTCCATATTTCAAGTT
ACTTCCTGAATTATGATATAAAAGTGTATAATACCATTAAAGCTTTTGGTACTTATTATCAAATTCCTATCCAAAGACT
TATGTCATTTGGAAAGTTGATCAGCAATATATGAAATGCATATCTAATTATATATACACCATTTTCAAGTATTTTATTT
TTAAAAGTAAAATAATTTTTAAGCAAGACAAATCTTGAGATTTTAATTTTCATTTTATTAATAGTGAGATTGAATATAC
CCCATATTTTGATATAATTTTATTTCCAATTTTGCAAAATTTCTACTTATTAATTAAAACATTCATTTTTGTAGATTTA
TACCTCTAATTTTTAACATATTTTGTAAATGGTACAATGTATGTTACATATTAATACTATGGCAAAGGCAAAAGAATGA
TAATGAATTGCTTTCAAACTTAAATATATATATATATTTTTTGAGATGGAGTCTCACTCTGCCACCCAGCCTGGAGTGCAA
TGGTGCAATCTCAGCTCACTGCAACCTCTGCCTCCTGAGTTCAAGCGATTCTCCTGCCTCAGCCTCTTGAGTAGCTGGG
TTACAGGTGCCTGCCACCATGCCCAGCTAATTTTTGTATTTTTTTTTAATGGAGACAGAGTTTCACCATGTTGGCCAGG
CTGGTCTCACACTCCTGACCTCAGGTGATCCACCTGCCTTGGTCTCCCAAAGTGCTGGGATGACAGGCACGAGCCACTG
TGCCTGGTAGAAGTTATATTTTTTAATCATACAACTTGCAGTATGGAAGAGACTTTACAATGTACCTTATTCAACCCTG
TATTATTAGTTTGTTTTCATACTGCTATAAAGAACTGCTCAAGACTGGGCAATTTATAAAGGTAAGAGGTTTAATTGGC
TTACAGTTCTGCATGGCTGGGGAGGTCTCAGGAAACTTACAATCATGTTGAAAGGCGAAGGGGAAGCAAGACACCTTCT
TCACAAGGAGGCAGGAAGGAGAATGAACACAGGAGGAACTACCAAATACTTATAAAACCATCAGATCTCATGAGAACTC
ACCCACTATCATGAGATCAGCATGGGGAAAACAGCCTCCATGATTCCATTACCTCCATTTGGTTTCTCCCTTGTCACGT
GGGGATTATGGGGATTATAATTCAAGACGAGATTTTGGGTAGGGACACAGCCAAACCATATCAATGCCCCAGTTGAAGA
AGCAAAGATTAAACCCATAAAACAATTATTGAAAAAAAAATGTTAGCTAGTAGATGAGTTTGTGGTACAACATACTTTT
TGTTATTGGACCTCAGAGTCAGTAGAAATCTATGTGACTTGGCGCAGTAGGGGAAGTTGTTATTAGAAAGAAGGGCTTT
TGTTGGACTTTGAATAGGAAGAGTTCTGTAAAATGAAGAGAACAAAAATTAAAGGGCATGAATCTAAGGCCAAGAGGTA
GAAATGGATGTGTCTCAGGTGCGGCAGAGATGAGACCAGCCTGGAGGGTAGAGGGCTGGTGTTGGGAGATACAGTGTGA
GGTAAGGCCAAATTAAGCATGCAAATCACAGATCACTTGACTCTTCTAGTTGAAACACATCACTCTGGAGTTCCTACTG
AGCATAAGCTACAACCTGATTATATAAAGCCATCCTTGTGGTTACAGGTAGATTGCACTGACTTTGGCAAGTTTCAAGA
TGTTAAACTGTGCTGGGAAGACTACAAGATGGGTTGACAGATAAAACTAGTTTTAGGAAAATGCATGCACAGGGCAATA
TTATCAGCTAGCCACAGCAATGGCCATGGAATACAGGGTCCTCTCATTATTGTGTTGTCCCAGGCAGTTCTATGACCTT
AGGCAGACTACTTATGTTCCCTATACTTCAATTACCCTATTTGTACTCTACGTTCTTTCTAAATCTCAGATTCTATAGC
CTCTAGCAGGAGCTCAGATAAAGCATAGCTTCAGATAAACAGCACTCTAGAGAAAAGAGAGAAAATGTAAATAGCAGGA
AATCTCTATTGTCATCTTTAGATCTGGAATAAGAAGTCCTTTCTTTTAATTCACAATTTTAGAAGGTATGAGGAGATAT
CCAGAACTTTCTTCCCTTGTTTCTGCTACCAATGTAGCAGAGGGCCAACTGAAGCAGATGTTCACATTATCTATCTTAC
GTGTGTAGAGGGCAAATTAGTGGACATTTAAGAGCCCAAGGCAATAATTCAACCATTCCCATGAAAAATCTGTTATTCC
ATCCTTGTATGTTTCTTTTCTTTTAACTTTTTGAGTATTTAATTCTTGTGTTGCCTCCTCCTAATTTCCTTCCTGCAGA
TACTTTGGTGAGTAAACCTTGATAAATTAAGCCTGTTTTTATTATATTCCTTTGGAGTTGTCTTTGATTGTGATCAAGC
TTCTCTTTTTATACATGCCACATGTATTCATTCTTCATTTAGATGAGAATCTAATCAAGGGAATAAACTGCCAAGTTTG
GTTTCATTTATGCAACCCTAGAAAAATATATCTTTTGATGAGTTGGAGACAACAGTAAGTTAGAGACAGAGCTAATCCA
TTACACCTTGATCACTCAGAGGCAACTGTACCCAAACAATTCTTTCCCTTTGCATCAAGAAAGTTTGTTGTTTATCTGA
GAGCTTAGTACTGTGCCTGGCACATATAAGGTGCTCAATAAACTTTTTAAAACCAATGCATCTGAGTGGCTTTATAATT
CAGCAGTTACTGTATGAACTGACTTACTATGTAGAAGAAAAAAGTATTAGTTCAAAAAGAGGAGATTAAAGAATTCTTC
TTACATATATAAAACATGTCCTGTTCAGTAGCTTCTCTAATATTTTGTGGATGATTGGAATCCCTTTTCACTCATATTT

Fig. 6.93

AAGGATGTCATTATGTATGGGGACATTTGCTGTTTCAATACATAGATTTATATTTGCAGGGAACTTAAAGTCCCCGGAA
ATTTTTCTGAGATATTATCTGATTAATCCCCATAACAACGCTGTGAGGTGGGTTGTGGAGATATGAGGGGAAAAAAGGG
AAGGGATTTTCCTAATACCATACAGTTTGTGTATATGACGTAGCAATGAAAGTAGAACTTATTTCATCTGATGACCAGT
TCAAGACATTTTCTGCTATATAAATCTTTAATCTCTAGGATAGAAACTGTCTTAATTCCCTTTGCATTGACACAGCAAA
ATGTATATAGGTGGTCCATCTAATTCCATCTCTGAATATTCCAGCACTATCTGTCTTATCCACCTCCTCTATTCATTTT
TATTTCTAAAGTGTTCTCCCTGCAGGAGCTGACTCTTCCTTCTTTCTAATTAACTTTATGTGGAAACTCCTATCGTAAC
GAAATTGCACGTGTGAGTGTTCTCTCGCCTGGCTTTCTTTTTAGTGCACCTGGAGGGAGAAAGCTTTTCTGCAGTCTCA
CCACATTATCTTTGCTGAGAGAGAAACTTGCAGGAACTAAGATAACTGCCTTCCTGAGAGTCAACCTTTTCATCAAACA
TTCTTTAGTTTAGGCACAGCTTTGATTTTTGCAGAGGTTACCACTTGTTCATAATTAAAATGCACTGGTTCATGCTATT
GGCAGCAAAGCACTATGGAAGAGTAGACAAAAACGTGGATTTTGAGGCAGACAAATCAGGTGTGAATACTGGTTCTGCC
ATTCCTGGGCAATTTACTTCATTCGTTGCTGCTGATTTCCTCGTTTGTGCCATGGGAAAACATATTAACAATGTCTACC
TCACAGGAGTATTGGAAAGTTTAATGATACATTATAGAGATTTTTTAAGGATAAATGAGGTAGCAGAACATGCAATCC
TCTTCATAGACTGCAGAGCACATCTACCATTTCCCCTCCATCTCCACTCTCCTCCCTGCCCTACCTTGGGGGGCTTTGA
ACCCTGGAAGGCTGACCAGTCAGATGTACTTCTTCCTCCTTTGCCCTCCTGCTTGCTTGCATTTGGTTAGTGGGGAGTC
CTAGGAGGAGACAGATGGAGAAAGGAAAATGAGACTGCGTGCAACTGGTTGTCTTCTTCTTTTTAGGGTCTAGCTGTGT
CCCAGAGAGCAACTTCCCTTTTCAAGGCAGCCCACTCTGTGTGATGCTTTTTCCTAGGTATGGGCAACCCATCCCTCCT
AGGGTGAAAACTTCGCTGTTGCTAGTTCCAGGTACTGTGCCATCCTTTGTGGATTCCTCTACCCTACCAACATCTCCTT
AAAGAGTCTCTTTGTTGAACCTGCTGTAAATGATCCTAATAAAAGTATGCTGTCTGTTTATTCTTGGACCTTCAACTGG
TAGATTATTCATACTGGTTAGTGGAAAGTAGATCTGCCTACATATGTATTATTTGAGAGAGGTTAGCACTTATAGAAGA
AAAAACAAGAATGGGCTGTTTTTACTTGCCATTTGATACTAAGAGAAAAAGAAGGTAGTGATGATGGATGATGATAAAG
ATATGATGATGGTGAGACCCAAATACCTCCTATGAGCCAAACATTCTCCTAGACAATACTTTTTACCTCATTCATTTTG
AAAACACATATGTGTATTATTATCTTTCTTTTGTAGATCTGGAAAAAGTTCAGATAAATCAAATAATGTACCTAAAAGC
TACATAGAATGCCAGTGGAGAGCTGAAATTCCAACCTATACCTATTTGGTTCCAAAGTCTATACCCTTTTACTGACGCT
AGGTGCCTCCTAGCTATACAGGGTGAGAAGAGCCATTCCATCAGCAGTCAGTTTTCAACTGAATCTCTCTGCCTATTGA
AATTTCTCTAAGTTCTAAATTCCCATAGGAAAGTATCTCTTAATGATGGTCTTTAAATGATTTCAAGGCAAATTTTTTA
AAAACCTGGTTAATTCAGCAAAGCTTATCAGGTCAAATCCATTATTTGTCTGATTTGACTGATTTGTTACCATTGAGTC
ACTAGCCCAGTAGGGCAACTATTCCATGGTTGTCCCTAAGGCTACTCATTAAATCCTGGATGAATAATTAAATATTTTG
AATAAGTTTTCTCTGATAATATATGTTTCCTACGGCTGTTATCTAAAGTTTTTTCTCCCTAGATATGGAATATTTCAT
TCAGTTTGTATTAATTTCTGTCCAATTCCTAAATTACATGAGTAACATAATTCTGCATTTTCTGGGACCTATAGGATGC
TAATTTGTAAAGGTGATTCAATTCCTGGAGGTGTACTAGCTGAGAACTTTCCATTGTGGATCAGCTCCTCCCTTCAAAT
CCTACTCCTTTAGAAAAAATCCATACACACTCAGAGAAACAGTATTTATCTTAGCAACTCACATTTGATTGTGCATTTT
TCTTTAATCTTCAGGCAAGCATTTCTATCAACCTTGGAAGAAGGCTTTGTCCCTTGTTTCCCTTTGAGTCCCCAAGTTG
CATCCAGAGATATTCTTAGCCACAGTGAACCTTACTTCTCTGTTTCTACCTCTACTTTGCTGTTACGGGACCTCTTACC
TCCCGCAAAGTGTCTTCCTTTTATTTTGAGAAGACTTGAGAGGGTGACTCACATATATTCCAAACAAGTATTTTCAGCC
TTTAAAAAGGCTGTGTTCCTTGCAGGCTTCTCTGCTTTCATTTTGTATGTTTTTTAAAAAATGATACATAGTTACTTT
GTTTTTTATCTTTTAAATGTATAATTCATACTACTTTGTACTTTAATATTGTCAATCATTTTAGCAAAACCAGCTCCTT
CAGACCTTAATCACTGTTACTCTTTTCCTTAAGTCTCAGACACATGTTTTTTGAGAAGCTTACAACAAACCCAAATGAT
AGAACTACATGCTGCTGTTAGCATCAGCCTACACCTACACTATTAGCCTAAACCTGCAATATCAGAGTTTTTGTGGTTT
GACCAAGCCTTTTATCCTCTTTCCCTTACAGTAAGTTCTTTCCCAGAAAGAAAATATCAGCCCACATGCAAATATATCT
TATAAATATGTAGGTTGTGTCCTGATGTAGCAGAATATCATAAATGAACACAGCACATATAGCTATTCGATTTGTTCTT
TCTTCAAAACTCAAAATGGAGAATCTCCACTGTAGTGTCTAGGAGAAAGCAAAGATTAGTTAGGTAATGAGGATGTCAA
TGTCATTCAAGTGGCAATTACTCTGGAATATTCCTTGAAATAACAGTTACTGCTTACTTAACAGTTATTGCTTATACTT
TTTGTTCTCATCTTCTCAAGTATTCCTTACAACCACTAAGAACTAAAGGGGTAGATAACTCACTAAATTTACTGAAGAG
TCATTGGATTGGCTTCAAGGTACTATTGATTATTGTCAGTGAAACAAGACGCAATGATGCAGTTGCTCAGAGGGCTCTT
TTCTTCACATGTAAGTAAGATTCCTCCAGCAGTGGATCACCTTAGTGATCCCTTAGTGAAAAATTGTCGAATCCTTAGC
TGTCCCAACAAGAATCAACATATACACAATTCAGTTTGCATCTTCATTTTATACATGTAACTTTAGGTTATGGCTATCA
TATCTGTTTTTTTTTTTTTCAGCCACTAAAACTGTAGAGTTGAATATTTAATGGAAAACAGATGGTGCTTGAAATCTC
TAACTTACATTTAACAAAAGCTGTTTTGGAAATGTTGCTTATGTATACTTTTTTATTGCTTTAAACACAGCACCGTTTT
AGCCTGTTCCGATGAATTATTTAAGAATTAACTGTCCCAGTCTAAGACAGCATTTCAAAGTGCAAGTGTTAATCATAAC
TTGATTAAACATTTCCTTCCTTTTCTTTTCAGCATTCCAGTTGGCTTTTGAGTGGATACGTGCAGTGAGATCATTGACA
CTGGAAACACTAGTTCCCATTTTAATTACTTAAAACACCACGATGAAAAGAAATACCTGTGATTTGCTTTCTCGGAGCA
AAAGTGTAAGTAACTTTTGTTTTCATCTATTTTCTAAACACATGTACATATAACATTTTAGTTTTGGTTTTGGATTTTA
ATGCTATGCTATCATGATTAGGCTTGTGGGAAACGTTTAGTCAACTTTCAGTTCTCTGACTGTACACAGCTTATTAACA
AACAAAGACTAGTTTGTCTGTGTGACCTGTTAGCATTTGATGAGAATTCTTTCAGCTAGTTTATATCTTACCATTCATT
CATATACGTCTACAAGCCTGATGTTGAACACTCTAATTTTTGAGTGCATGCAGAAAATATATGATTAAAAGTCAAAATA
TAGGGAATTTATGTCTTGAATATGAAACCTTCTGGGCAAGTCTAAAAGCATAAATTATACTTATGTTATTAGTTACTTC
AACCAGTCACATTCTGAAAGTTCTTCCCTTCTATGAGCTTTCTACCCTGGCATATATCTCTAATTTCTTCTTTTAATCT
TTTTTTAAAAACATTTTAAATTGAACATCCTCAGGGCTCTACTGAAGGTTAAACCTTATTTCCAATTATGTAGTGTTCT
TAAGGTACCACAGTCATGATACTTTTTAAATTTATATTAGTGTATGGAAAAAAGCAAATAGAGCAACTCAAAGAAAGCC
ACACAAGGAAAGGATGAAAGCAGACTATTAATTTCCATCAAGCAAGCGCTAAGAACACATCCCTTTGTTCATTTACCCA

Fig. 6.95

AGGGGGATAAGGCATCCAAACAGATGTACTTGTGACGTAGGAACATTAATTTGAAGGCATCAGAAAAACCACAAATGCA
AACACATTTCTCTAGTATGGGAACACTTTGTGTTATAACCAGTGATTCTATTGTGGTGGCCCAAGGCCATCTTTCATTC
TTTCTATGGAGTTACCATCCAGCTTTTAAGGGTGAGGCATGAGTATGTGCAGATAAAGTATAGTATGCCCAACTGTGTT
TGTTAAAAAATGAGGATATGCTGAGAGATATGCCAATCCTTTGACTGAATACCGTGTTTAATAACCAACCAAGTAAATT
CAACAAACTCTGAGGAATTGTTCAAATTTATGTGTTTTACTGGTTGGTGTTTGGTTGTATGGATTATTGCATAAAAGAA
GGGGCCATGGATTTGAGCCTGGAATTCCTTTTATCATCATACAAAGTCACTCACTGTAATAGGAGGTGACCTGCATACA
AACTACCAAACTGCAAACACATCTTTCTCTTACTGAGTTTTCTTATTATAAATTAAATATGAAAGCAAACTATTCATAT
AATGTTTTCTGTTATTGAATTTCAGAGACATGAGATCTGAAAAAAAAATGTGTAAAGGCAAAAGGGAGGATATTTTGAA
TAATTACAAATGTCATTAAACATTTCCCTATTCTTGGAGGAAAACATTGTAAAAGCAAATGATTAACTGAGCGGTGACT
TTAAGGAACTGAGACTACTTAATGATGCTAGGAGACTTCCTATTTGTATTTGTTTAATGCAAAAAATTTTATCTTGGTG
GAAAGGCTCAAGCTTTCCAGATTAAGAGAACCTGAGTTGCCTACATTTGTCAAAATGTAAACAGTAGAACTCTCATTTC
ACTGCTTCCTAGCTTCTTGAGAATCCACTGGCATAAAGAAAATGCTTCCACTTAATTAAATGACTCTAAGCAGAAGTTA
ATGTTTATCAGAAAAAAAGAGCCAGACTTATTGCCTAGTTAGAAGTTGTCACTTTAGGGCTATAAAATTTTATTTTGCT
CTGGTCTGAGCATATAACCCTCCAACGCTTACGTTTTGCCATAATATAATCCAAAATTGTATACTTAGAGGTAGATTT
TTCCTGGTTTTGATGAAGAAAGTTTAAAGAATTAGTTCTCTTTAGAATCTGAGGATGTTTATCTTTGGCATTCTGACAT
TTGGAAATCCAAAGAAAATGTTCGAAATTTAAAACAGTCTCTGTTCCTCCCTACATGCCTCTCTTGTAGGTCTTGCATC
TTTCATTGTGAAAATTTAAGGCATACAAAAGAGGTAGAAAAAAGATCATCCTTAAACGATCACCTTACTTAGTGAGTTC
CTCTCATGAGAGGGGTTCCAGTGTGTCTTGGAAGACCATTTAGTCACTCTTCAACTCAAACAATTCAGGCATAAGATGG
GTGGTTAAACTATGTGAGTGTTCTGTTTCCTACCAGTTATGAATTTCTATGATTCTATACCATGTTGTGCTCATTCGTA
AGTTGAATCAAAGACCAGTTCCCAAATAAATATAAAATCAAGGCATCAGGGCAAACAGAGTATATTAATCAGCTTGGGC
TACAATATACCATAGACTAGGTGGCTTAAACAGAAAAGTATTTTATCACAATTCTGCAGGCTGGGAAGTTCAAGATCAA
AATGCCAACCAATTTTGTTCCTGGTAAGCTCTCTCGTCCTGGTTTGCTGATGGCTTGCCGAAAGCTACTTTTTCCCTGG
GTCCTCACATGGCAGAGAGAGAAAGCAAGATCTCTGCTGCTTCTTTTAAGGTCACTAATCCCATCATTAGGGCCCC
ACCTTCATGAATTCATCTAACACTAATTACCTCCCAAAGACCCCACCTCCAAAAACCATCACATTGGGGGTTAGGGCTT
CAACAAATGTATTTCAGGGGGACACAAACATTTGGTCCATAAGAGAGTTTGATATTCTTTTTTTTTTTTTTTTCTGAGA
CGGAGTCTTGCTCTGTTGCCTAGGCTGGAGCGCAGTGGCGCGATCTCGGCTCACTGCAAGCTCCGCCTCCCTGGTTCAC
GCCATTCTCCTGCCTCAGCCTCCCGAGTAGCAGGGACTACACGTGCCCGCCACCACGCTCGGCTAATTTTTTTGGCATT
TTTAGTAGAGACAGGGTTTCACCATGTTAGCCAGGATGGTCTCAATCTCCCGACCTCGTGATCCGCCCGCCTCGGCTTC
CCAAAGTGCTGGGATTACAGGCATGAGCCACGGCGCTGGAGTGCAATGCCGGGATCTCAGCTCACTGCAACCTCTGCCT
CCCAAGTTCAAGCCATTCTCCTGTCTCAGCCTCCTGAGTAGCTGGGATTAGAGGCATGCGCCATCACACCTGGCTAATT
TTGTCTTATTAGTAGAGACAGGGTTTCACCATGTTGGTCAGGCTGGTCTCAGGTGAATTTGATATTCTTAAGGGATGAT
TGATTTAATAAGTCACTGTCTTGTTTAAGCCCAAAGGGTAGTGACTAGTATAATGGAATCTGTATGTTTTCCCAATTTG
GTAACACTGAAAATGATCTGGTCAACATCTTTCTCTTCATTTCTTATTTTCTAAATTTTATGTTAGGGACATTCTTACC
AATGATTTTTGAAGTCTAATAATCACTTCATAGACCTAGAAGCTAATTTTAATTTTACTGAAAATGATTTTCCCCTTTC
TTCACTATTCTTAGTTTGCTTATTTTATATTGTTCTTTCTTAACATCTAATCCAATGACAGGTCTCTGAAGTATCTTGT
CCTATCAATGGATTTACTATTTAACTTTTCAGATGTTTATATATTTCAGAACTGACTATCTCAGTTACCCTTCTTCCCT
CTGCTAATGCCTGCTTTCTTACTGGCTTTTAGCTAATCAGGGGAGGGAAGGAAAGGTACAGACAAGAGAACAGGATATA
AAAATTTTTGTTGTAATTATATATTTTAAAATCAGGAGTTAAAGTAAAAATTTTAGCATTTTCTTTTCTTTATAATATC
CCTGTTATTCTCCAAACTCATGAAGTTTTATAAATCTTCTCATCTGGAGAATAAACTAGATAAATTTTAATTCTTATTC
ATTAATAAATTTTCTTGTGTATTAAATTCTAAACTTTCTTGTAGTCTTTTGCATTAAATTCCCAATTTTCTAGTACACT
GAATCATTTTCTTCCTACCAGTTTGAAGATATTCAAGATGTCATCTACTTAATTGGATTTGTTAATTTTCTTGATGAAA
TTGCCCTTTATTTGACTTAGGATTCTTATGGATGTTCTACTTTTGGATAAATTGTCACTCACCAGATGTCTTTGATGT
TCCTTGTTCTTTTTTGATAGAATTGTTGTTCAGTGTTCATTCAAAACTGGAAGCAACTCCTTGGTGTTTGGAAGACATA
GGGTATCTGGCACATTCTTTCATAATGAATTTAAAGCCCACCTAAATAGGCTGTCAGTTTTGAGTCTGGGGGCTAGGAG
CCCATCTGGTGAAATTTTTCCCAGTAGGCTCCCTAGAATATTGCTTATTTTCATGGAAGACTTTAAAAAATTGTACAAA
CTTGGTAAACTAAAGTGATTTTATTCTTAAGAAAATATATATTTTTTTCCATCTGTACCTTTACATTGCTGAGTTTTTA
GAAGCAGTCACTCACCTAATGACCCAGGGTGAGTTATTTATGCCATTTTATCTGCATTTTTTAGTGTCTTCCTGGAGTG
GGCAGCCAAAAAATAAATTTAGAAAAGATGGTACATTTTGTTATGGCACTTCAGAGCTATCTGCATTCATTTTTCCTCA
CAATTACCCTGTAAGATAGAGTATTTTTTATTTGTATGGTTAAAGTAAAAATAACAAATTCCTTCCTAGATGGGCTTCA
ATTCTCTACTATATTCAACCCCACCTAAGCTACGAGATTGACAAAGCTGTTGCAGCTTAGAATCCTAATAAAGTTAAGG
ATGTATAAACTGATTTTTTTCACTGGTATTCACTCAGCAGGGTCCAAGAAGGTCACGGGAGATGCTGTAGGTAAAATCC
TTTGAAAAGCACAAAATACAAAACAAAACCAAGTTCCTGCTTGTGTCTTTATTCACAACAAATTGATATGAGAAGTTGT
AGTTTTAGAGATTTCACTCCTTTGGTCCTTATACCTGCCTTCCAGCTTGTTCTCCTTCTTTACAAAGTTCTACAAATAT
TTACTGAATGGCTACTGTGTGTTAGGCTCTGAGTATCCAATGTAAGATACATGTTCTCTCTACCCTCATAGAGCATATC
TGATAACTAAATTTATAATTTTTACAATTTGTTAAAATTATTTCACCACCCTGTCTCCCTAACCCTGATCACCTAACTG
TATCCCATTTTAATCTTTAATTCTTTTTAGGAAGGCTGAAGTTCTGTATCTCTCTGAAGTCTCTCTGTATTTGCACTTC
ATCACGTTGTGGGCACCCTGTTTAGTAGGGATATTTTGAGCTGTGAATAATGTGCTATAATTGACAATTATGCTCATTG
TTGCAGAAACATAGATTATTTCAGAGTAGATAAAAAGAATTTTTCTCAGATAATCAACAATAGTATAAGAATAGCCAAG
AGTATAAATAAATGTGAGAATGACAGGAAAGGTCTGAAAGAACAGCGACTGATCAGCAACCATTTGCTTTAAATCAATC
ACATGTCACATGACTGTTTTAGTGGCCAAAGCCAATCATTAAATTGTCATCTTGGAAAAAGTTCCACTTTTTTCTGTAC

Fig. 6.95

TGTGATGTGTTTGCTATTTCATTTTTGGACAATTTCAAGTTGAAGTTGAATTACAAATGATTACGTCCAAGAAATAATT
GCATATATTGTACTTACCAGTGTAAACACCACAGATACAAAAAAATGGAGAGAAATCTTGTTGCATTGTTAATGAATAT
TAAAAAATTATTCTTACAGACAAAATCTCTCTA[illegible]ACAAAGTGAAATTTTGAAGAAAAGCATAACTGGTGGAGTTTTCT
ATCAGTAGTATTTGCTCTAGAAAAATGTTTATAATGGCTGCTTATTTTTAACTGAAGGTAATTTTCTTTTAAAATTTTG
TTTAGCTTTTTTTCACTATTGAAATGGCAAATGTTTTGAAAACTAAAAAATTGACTTCAATTAAAATTATTAGTGTGTT
TACATTGTTTCCCATGGTCAGCACTTTCAAGGGCAGAACTGGAATTGTCCCTGAGTTATAGTTCTGGCTTTGCATCTGT
GCATCTATGTCTTGGTAGAAGAAGTGGGAGTAAGAGAACCATAAGTAATTAGTTTTATTATCAAATGCTTCCAATAGCT
TGCATAATTTTTTTCAAGGGTAAAATGAGAAAAACAGCATTGAAATCACATTAAAAAATAAAGCAAACAAAAAATCCAA
ACCAAATCATCAAGCAGAAATCATTTTAAAAATGCTATACAATAATCAATTGTGTTCAATACTTCTGCGCCAAAACCTT
TAAGTCTTAAAGCTTTCCTAAATGGAATTAGTCCATCAATAAGCAGATAACAACTTTACTTTTATTGTTGAAAAATGTC
ACTCTTGTCAGTTCACAAGTTTCCCTAACTTGTGCAAATTAAAAGCCATGACAGCAAGGCCAAGAATGGTTCGTTGGTA
TATAGTTAGAGAGACCCTGACCCTGCTTTCTTGTTCTTCCTATTACCCAGGATATGTCATACGCCACACACATGGGGGT
AGGGATACCGCCCTACTTATAGCATAAGAACTGAGAATAAGACATTTAGCTTATAACTCTTTTATGGTAATATTCCCCT
CCCACTGCCATTCTTCCTACTCAGGTAGTCTGGACTTCTGTTTTGGCAATATTGCTTCCGTGAGAAGGATTTGACTGTA
CTTGCAGCCCTCAACATCCTGAATTTAATACAATCTACGATATTTGTTAAGCCCTCACCAACTATTTGACCAAACTATG
ACAGTTACATCCCACGGAACTGTATACCAAATGGTACCCCAGCAGTTCAGAGAGTTAACACACCACCAATTCACTTCCA
GGTTGGGCTTTAAGATTTTCAGAGGATCTTGCTTATGAAATCATATTGGCTTTTAGATAAATGTATTAAAATTACTGAA
AACAAATGATAACACCACAGTACCACAACCTAAACAATCCTTTCTATAAATTAATTTAAAACAAGAAACAACAAGCTTT
AAATGTCATCATCTCTGCTTATTGTATGTCCTTAAAAATATTATTAAATGTCCAACTTTTATTTTTCTAGAAGAGGTCA
TTATATAGCATTGATTTGCCAGCAGGGTTCTATTTGAACATACCAAGAGACCTAGACATTGCTCAGAAACAGTAGTCTC
AAAATAAACAAGGGATTGGAGGAAAAGATGAGAGATCTCCAGTATGTCTGCATATAAGGGCTGAAAAAGTAAAAGTTTC
CAATTGTTTTTTTTTCTTTGCAAGTGCTCATGCAGGGATTCAGAACATGCATTCCTCACCCAACATAAATGAAATAATT
GGCAAGTAGTCAAAGAAGACCATATCCTTGAGTGGGTAGTATTGTTGTCTATTTGGAAAGCATTTACATGTTTTGATTT
CCTGAAACAATGCTGAAAATGTCCTAATGCAGGAAGGGAGAATTGAAAACAACCACCATAAAATGCAATTAGATGTTGG
TAAAAGTGACTCAGAATAGACGTAAGTTAAAACTTTCTGACAGGGTTTTCTAGCACTGGGACAGTATTTTTTGAGGAAA
TTATAAAATGGTCTTATTTCAAGATCTTTTAACAATCTGATGAAATATTTATGGTTCTTTAAATTTGTATTGTTAGTAT
CATACTCTGAATTATAAAACATTTAAACATTTTAGTTTATAATCTTTAACTTCTCACTATTATATTTATAAATGTGTAT
ATAATTTGTGCATATGTAGACATTCATGAGGAAGATGAACATATATGTTAATTGGCATCTGCTCATTTAAAACTAAAGT
TGTATACTTTCATTACAGTAATACACGTCATTCATTAAATTATCTTGTGGCTTAGCTTTACAAATTCTTACCGTTACAT
GACTTTGGGTGAATGACCTCACCGGTGTCTATATCACTCATGTGTAACATGAGAGGAGTAGATTAAATAAACGAAAAGA
TTTCTTTCAACTCCAAAGCTATGACAATGTATTTTCAAGATTGTGTACTTCTTAGAACAGGCTCAATAATAATTTTTCA
CATTATGAACTTTGCAGTCAAAGAATAGGTTCTTCTTAACCTAACAAATGACTATCCTTTCCACCCAAAGTATAAACAG
GATCCTGATTAATAAATTGAGTTCAAAGAATCTCTGCCAAGTATGCAAAATCACTGCCTCTGTTTGTCGGACATTCATT
GCCTCTAAGAATTGATGGAATTGAAAATAACCTCATTTTACTGGGACCTCAGAGAATTAATTATTTAAATTTTTTGCTG
CTTTAAACATTAATTTTCTTAATTTACCCATATATGTTGCTGATAAGAGCTGTAATATTTTGAATGGTTGTGCTTTGAA
GAAATCTGAATCCTTTTGCTTTGTATTCCAATGACAGCAGCTTTGACCAGCGACCAGCTCTCTTCTGAAAACTACCATT
TTGACCCCTGCATTTCACCTGTTGTCCCACCAAGCCTGTCTGTTTTTCCATTAACAGAGACCTCTGAATTGTTGTGCCA
AATGTGGACAGTGTTGTTTCTTCCTCACTTTCCTGAATTATAACCAGTTCCAGGCGGTAACATGCAACCGAACTTTACT
GAGTCCTGGACATAATGGGAAAAAATCATAGTGTAGAAAGAAAACTATAGGACTGAATATAAAAAAATAATCATTTCTG
GCATTACAGGACAAACCCAGTCCTTTCTGCTTAGTTACTGACCTACCCCCTGTTGCTTTGCTTATCTTCCCACAGTGAA
ATGTCTTTCTTCTTATATCCTACATGGTTTCCAGGCCCTTTACTCCAGGAAAGCCAGGAGAAACGCCTTATTCCAAGTT
CAAGTAAACATAATAATTTACAAAGATACAACTCTGCCCACAACAAAAAACTCCTTTTACAGCGTTATGCAAAGGCATT
TAGACTGGAACATCTATGTTCCAGACACAGACCTTAACCAGTCTTTTGTCAAACTAAAAGAGCAATCTTTCCTCAAAGC
TGGAATAACACCTTTTCTTTTAAAATAACATTTCGTGTCTCACACTCCCAGATGTTTTCATTTAAGACTTTAGAAAATA
CTGGGATCAGTTATCAGCCAAGAGTACCCCCATTCTAATAAAAATATTTAAAGACATGGAAAAATCAATGAATCCAAAC
AATCATCATCCTCACCAAACCCTTATCATTTCTATAACTCACAGTAAATAATCTCAAGTTCTTTATTTTGGTAAATTAA
GAAATTCCAGAGTAAACTCTCTAGCTTCTGATTTAAGCTCAGAGATGCAGAGAGCTTCAGAGTGTCGTTCTCATTCTTA
CCATAAGGAAAAATCTATACAAACTACCTATTCATTAATTTAAAAAAAAGCACCAGCAAATTTAGGTCGTAGGGCAACC
AAACAACTCCAAATCTGGAAAGAGACAGGCACCTGCAAGAAGAAAGAGGATGGCATCATTTGTTTTTCCTTGGGTAGAC
ACCACCAGATGTCATGTAAACCAGCAAGATGATTCAGCTAAACATTTTAATGAATTGCTAAGGCTGAGTATGGGCTAGC
ATGAAAATGTGACACACTGGAGGTGGCAGATATAGGGAGTGCATCCTATAGCAGGCTTTTCCTCCACAAACCCCACCAG
GCACTCACAGGAAAGACTGGGGAGAACAGCAGCCACCTTCAAACCCACAACCATTTCCCAGTGGAACAAAAGAGTTAAT
TGGCAAAGAGAATAGCAAAAATCATTGTCTTAGGGAACTGGAGGAAACCCATTGGTGATGGTGGCAGTAGGAAGAATGA
TCGTGGTGAGGGGAAGAGAAAAAAGTAATGCTCTATCCCCAGGGGTGGGGTATGGAATATATGCTAGGATTTGCACAAC
AATTGGAGAAAGTTGCAGGAGCACTTGTGAAGGCCACATTGCTGATACAGAGGTACACATTACCTACCTAAGACTGAGT
CTTAATCAGAACATCAAGGAATGCCCTTCCTCCCTGGCCTGCTACCAACAGCCTAACAAGTGTTGAGTAAAAATAATAT
GGGAATATGGTTGAATATGGAAGAAATTCAAGAGACACATTCTCTTTAGGGCCCAGCATTAAGGGAAGACCCAAAGCTA
AAGGGGGAGCAAATATTAAGAAAATAACAACTGGCAAGCCATTTCACAATCTATTCCTCTTTAAGAATCCAAAAGTATC
TATCTCAGTATCTACTGTCCTACACAAGATATCCGGCTTTCAGCAAAATATTATGACCATATGAAAAGGCAAGAGAAAG
CACTCCGAAGAGATAATACACATAAACATGTGATATATGGGACACATATAAAAATTATCACACAAGGAATTTAAAGTAA

Fig. 6.96

CTATGATTAATATTTTAAAGGTTCTAAAGGAAAAGGTTGACCACATGTGAGATCAGATAGGTAATTTCAGAGGAGATAT
GGAAACTAAGAAAAATCAAATGGAAATGCTAGAAATTAAAAACATAGTCAAAGAGATTAAAAAATGTCTTTGGGCTTGT
TAGTAGACGTGAGACAGCTAAGGAAATAATCACTGGACTTGAAAATAAGTCAGTAGAAATTACCCAAACAGAAAAAAGA
GTGGAAATAAAAGGGAGAAAGAAAGAACATAACAGAGCATCCAAGAACTCTGGTACAATATTAAGTGGCATGACATATC
CATAATTGAAATGACAGAAGGAGAGGAAAGAGAAAAAGAGGCAGAAGAAATGTTTGAAGAAAAAAATCGCTGAAAAAAT
TTCCAAAATTGATGATGGACACCAAATCACAGACTCAAAATCTCCAAGTATATCAAGCAAGATATATACCAAAATAAAC
ACACACGTGCAGAGTCATGTTATATTGAAATTGCTAAAAATCAACAACATAGAGAAAACCTTAAAGGCAACCAGAGGGA
GGGAATGATAAATTACCTAAAGAGAAGTAAGGATAAGAATTACAGCAAATTTCTCCTCAGAAATGTTGTGAGCAAGAAG
AAAAAGGAATGACATCTTTAAAGTATTGAAAGAAAAACAAAACCCAGTAACCCAGAATTCTATGCCCAATAATAATACA
GTTAAAACAGGAATTTAAATTTTTCTGACTGAACTTTTTAGGTTCCTATTCTGTCTGATGTCCCCAAAGTAATATGCAC
CTATATCCTCATTTTATTTTGTCTTTCCTTTTTCAAATCTGAGAGGGTAAAGCTGTTTCTTCTATTCAAGACCAACACC
TCTATTGCCTCAGAGGGTTAGTCAATTGCCTCCTCCCTCTATAGGCTCAATTGCAATTTAGCTAATCTCTCTTCTATTT
CTCCTTTTTACCTTAGTTTATGAACTAGACCATCCAGTCCTTTCTGTCACTCCCGTCCATGTATATCTCTTTTGACAAT
TCTAGTATTTATATTTTTCTTTCTAGTAGTTATTGCTATTTCCTTCTGAGACTGCATGTTCCTTAAACAATGCTGTTCC
CCAAGATTCAGTCATTGGCCCATGTAATATTTTAAGGTATGAAGACACCTGAAAGATCATAAGATATCTCCTTTCATGT
CTTAACTATCTTCTATTTGATTATCTCTCAATTTCCATATTTAGTTCCCATTTCTACTTTTAGTCACAGAACTCTAACC
AAGTGCTTGCTGGACATTCATAACATCTACACAACATTTCCCAAACTAGATGCATCCATTATTCTTCCTCATCTTTAAA
CATACTGCTACATATCCTAAATATTTTCTATTATATTTACTGCCTCAGCTATCCAGTTGCCTAAGGCAGAGCCCTGGGA
ACCTTCCTCAGCTCCAGACTCATCATCCCTCCCAACATCTAAACAAGCAACAAGTGTTACTGCATGTATTTGTGGGCAC
ATATTTCTGAGTCCTCATCTCAGCTTGACTTCCCTTTCCACCAATGCCCTGGGGATCACCTTATTTTTTCTCCCCAAGA
TGGTTCTCATTAAAATATACCACAGTAGTGATAAGTAGTAAAATTATATATGGAAGCTGCTGACTGTTGCTCCATTAGC
TGTTTCTGTGGCAACTCTATTTTTTCCTATTAATAGTGTACTAAGTGTTTTGAATCTATGTCTTTTCACAACTTCTTTT
GATTACAGTTTAAGATAGCCTTTAAATACTAAATTCATATTAAGGTGGATCTGATTGTGTGTGTGTGTGTGTGTAATTT
CTGTTACAGCCATCATTCATAATTCATTATTTGTGAGGAATAATTATAGCAAAGACTGATTAGATGAAATGTTAGATTA
TTTATTATACCAGATTCGAATGGAATTAAAGTCTAATATATGTGTTAATGTGACTAATAAGAATAACAATAATAATTTA
GAATTGCAAAATGCTTTTAAGTTTCCATATACTATTACAACATTTTCTTGTTTTTTTCCTTTATAAAAACTTACAGGTA
GGAAAGGCAGTTATATTTATCCTCATTTTATGAGCCTTAGACAGATTAGGTGAGTTAGCCAAGATGCACAACTAGTAAT
GGTGAATCCTAGATATACTTCAGTTCTTCTGATTCCAAATTCCTTACTTTGGACACTAAACCTTGGAGCCACACAAATG
TAACTGTAGGCATCACTTATGTACTAATGTACCTGTTACACCATGTGCCTACTGGAGAGAAACTGTAACATATTTATAG
TCAATTATCTATATTTATAGCTATCCTCACAGTTGGATAACAATGTTATATTGTAAACTCTAGATACTTTTGCACTCTA
TGACAGAAAGTGGATTTTTTGTTTAGGAAGACATTTTAATTATGAATGGAGGCTTGTTGGGGATCCCTATTAGCCTTTG
TTAAATCACAAGGAAGGTAAACTCTTTTGCATAATAAAGTATTAGGATTTTTAAACTTGTCCCCTGACTGCTCAAGAGA
TGAAGTTTGGGGAGCGGCAGTACTTTGGAGGACTCTGGTAAGTGAATAGATATAAGAAAGTTCTGCAGGGATAGAGCCA
CATGGCAGCAGACAGGGCTTAGGAAGAGGGACTACCAATTGTCCCTGTAGCAAAGATGGCCTGGTTAAAGCCTCTTTAG
AATGAATGAGTTCTAGTAACCAGTTTTAAAGATTTGTCTGTTTCTTTTCTCCCCTCAACCCTTTCTTTAAACTTTCTGT
AATCACAACAGCATTGTAACAATTTTGCCTCAAGCTGGGAAGAGAAGGGCTGTGTTCCTCCTAGAGACAAAACAGGGAA
GAAAGGTAGCAGGGGCAGAGTGAAAGCAATGATTGCTGTGGAATTGGAACAACTGTGCAGAGGAAGCTGTGACAAATAA
TTAGGGTTGGTGAAGCACCTGTCCCTTTGGAGGTATTTCCCAGAAATACTGGGAAGGGCTCTAAATGTCCCATTGTTAT
GTGGGGAGATGGTTTTGTTTATTGTATTGCCCACAGAAGTCTGAATACGTTCAAATATTTTGCATATTTGTGTGTGTGT
GTGTGTGTGTGTGTGTGTGTGTATTGAAGTACTTGGCATAAGGTTATGCTATTTCAAATTAACTTATAAAGTAATTT
GGTTGATGCAATATTCTGTGATCAAAATTTATTGAGGACCTCACCAAATGCCAACATGTGTGTGTATATATATATATTA
TATTATATATATAATATAATATATATATATTCACTCATTTAGTTCTCAAAACTATTCTATGACACTAATATTTTATGTA
ACTTTTCTATGATACGATTATTATTCCTATTTTTTGGATAAACAAACTAAAGTACACAAAGGAGCCAATACTTACGTCT
AAAATACCTAAAACATACATATTTGAAATAAGAGAATATGAGGAAAAAGTCTCAAAATTTTATGTAGGTTTTAATAATA
AAATTGAAAAGTCGAATCATTTTAAAACCTTAAAGTTAGTATATGGAAATATTTGGCTCAAGAGTGAACTTTAGACCTC
TTGTCTGGATATGAGTATGGAATACATTATTCAGTTTCTTTTTTATAACTTTAAATAGCTTGTAAGAAGACACCTATGC
AAATAGCAATTTCTCCAAGATAAGTGGCCATACAGGCCTTATGACCTTTTGAACATGTCTTCCCAAATACTTCATTTCT
GATTAGAGGATGGTCATTCAGATTTCACTGGATTTAAATCCACAGTGGGATAGGTTTTAATCCTTTCTGGAAAAAATAT
TTATAAAGCCTATGTGAGTTTCAGAATAGTAAGAGCTTTTATTCTGTCTCTCCTTGGATGTGTTAACCCTTCCTTCTAC
CTCAGATCCATGCATTTCTCTAAGTTTTATACTTTGTTTAAATTGAGCTTTCATTGTTTCTATGACCAATTTTCAATTT
GTCTCTACTTTGCACTTCAGTAGAACTAAGATGAATTCTGAAAACGCACAACAGCCTTCATCAATGGTCCCTTTCTGTA
AAGAGTATCTCTCCCCGTACATATTCAGAACAGTATAATTTTAGGAATCAACTGTATCTACCTAGAAATATGTTTTATT
TCTCTCTGTCTCCAAAAACAATTGAAATTCTCTCATATGGTTTATTGCCTTGCATTTACAAAGGAGCCACAAAGTTCGA
TTTGTGTATACTATTTTTGCTTAACTAGCTATCTGGCTGATGTGCACATCAACAAATGACAATGTAGTCATTCCATCTT
TGGTACATGGAGTATTATTTGATAAAAATTCCACTATATTTTAACTTCTGAAAGTAAGGTGATTTTGAAGTATCTAGAA
GATAGTTTCTTTATTTCAACAATCATAACCCTGTGCTGCCAGATACATATTTTGATCCCAAACTTGAAAATATTTCAAT
GGTTAGATTATTATGCTTTTCATCTGACAGATTTTATGGTTTACCATTTTCACTTAAGCTTTCCCAGCTTTTTCTCCTC
TTTAAAAGTAAACTATTGGAAGTTTCATCATTTCCATTATCAATACTAGAAATTAAAGAGTCAGAGATATATGTATTCT
CAGAATTGTCTGAAGAGTTTATTGTAATTTAATAAGATGTTCTCTTCTGTTGTTTCATCTATTATGTCATTACATATCA
TCTATGTCATTATCGTGTTTCTCTTCATGATTTTTCTGGATCACTTTAATGCTCTAATCAAGTGCTCTTTATTTTGTGT

Fig. 6.97

ACAGAGGCCTCATTATGATAATACTATATAAAACATTTGTATGATGCTTTTCAGTTTACAAAGTCCTCTTAAAAAACAT
TACCTTATTTGCAACTCATAACAACCTTGTACATTAGGCTGTGTTATTATTATTATTATCTGTAGACAAGAAAACACTT
TTATCAGGTAATGGAGAGGCATTTAAATGGAAGATTTTCAAATCCTTACCTGAGATCTGTTCACTCTTTTCCTTCTTTT
TTAGTTTGTTCCCTTTTACTCTGTATCCTTGGAATTATGTAGATCTATAGTGAAAGGCTAGCCTATCAGTTGCTAGCCA
TTACTTTACCAAGCTGAGCCTTATTTGACTCATCCCAAGTAATATAGGTGATAATGACTACATCATAGGATTGTTATGA
AAACTAAGTGAGACAAAGCACGTTAAAGTGTCTAACACAGTACCATTTTATCCATCCATATGCCATATGGTGGCATAAT
ATTCTAGGTTGGCTATTCCTTAATGCTATGTAAATTTTCTTTCTTCTGAAATTAAAATAATTATAATACTTAATCCAAA
TTAGACTCTAAAAAGGTCATGGTCAGTATAATTTATGAGGTAAAAATGGCATCAAAAAAGAAAGAAAAATGCAGAGTAC
AGAGTAAAAACTGAGCCATTTTCTGGGAACTGTTGTGAAATTGAGTTTCTTAGGCTTTTCATGTCGATAATGCAAACTA
AATATAATTTGCAGGTCCACAAAAAGTAAAATGATATAAAATTATGCTAAAATCAAGAAGAATGGAAATTAATGGATTT
AAAAAATTATTGTTATTGCATTCTCTCAATTTTTTAAGACTCTGTCTCTGCAGTAATAAAGGGAACAGAGGGAAAAGTG
GGATTCCAAAATAGTTTATTTAGACTTGGAATGCTTGCATGCTTATATCTCACTCAACATGAATACGTCTTAACTAATG
GGGACTTAATGAAAACTTTATATTATTATTAATTGATTGTGGATTAATAAATGAATTAAAAATGGGGTTAGAAATAGTG
CGTTATTTCTTCATCTCTTGCCTTTATTCAGCTTTTCTCTTTGTCCATTCTACAGTAGGAATGAATTCTATCTCATAGA
TAGATTTAGAAACCAACTCCAGCAAAAAAATTGTTGTGCTCTTTGTGAGGGAAGAGGTTAGATTAGGATGAATTAAATA
TTTCAGTTGAAAAAAAATCTGAGCAAATTCATTTAAGATATTTTGAAAACTCCTAAACAGTATATAAATATATGAAAGTT
TAAACAATAATAAACAGTGGAGGTACATCTTTTGTGTTGTAAAAAATGTAGTTGATCTTTTTCTTTAATGTTTCCTTAT
TTTTGTGTTTTGCTTAGTGAGGCTTTTCTACTGCAAGATTATGGATAATTTTGCCCATGTTTTTGAACATTCTTATGGT
TTTTCTCTTTTCCCCTAACCTTGACAAACAAACTTCCTTTCAAATGTCCTAGATGCTTCAGGGATAGCTATTTGAAATA
GTTCTTGGAGATTAATAATTCTCCATGGCAAGCTGTCTTATCCGTATTCTGGTAGGTTATCTTATAGAAGAGGAAAAGA
AGGCAAAATCCTAGAGTTAAAAAATACAATAAACAAAATGAAAAAAGTAGTAATAACAAGTACAACAACAAGAGCTCTA
GTGGTATACTGAGAAACAACTGCATTCTTTTGTTCTTTTTTCTTATTTTCAATCATTATGTTGCATGAGGTACAGCCAT
ATGAATAAATATGTACTAACACATACCTAGACATACACAATCAGCCCTCATATTCATGATTTCTGCATCTGTGGTTTCA
GTCAATTGCAAATCTAAAATACTTTTTTAATCATCTGTAGTAAGCATGTAGAGACTTTCCTTGTCATTATTTCCTAAAA
AAATACAGTGTAACTATTTACATAGTATTTACATTGTATTAGATAATGTAAGTAATCTTGAGGTGGTTTAAAGTACACA
AGAGGATGTGCGTAGGTTACATGCAAATACTATGCCATTTTGTATCAGGGACATGAGCATCCGTGGTATTCACTGGAAG
TTGTGAAACCAATCTCCCACGGATACCAAGGGACAACTATATACATATATGTGGCTATGCGGCCTACCTACTCAGAAGA
GGGTTCACAGAAGAAGGGGCAGCATGGAGAGATTCATAATGTCTTGTGAGGGAGAGGGGAGCCTACAGTGGAATGGTTA
GTTAGAAAATAGCCAATAACTTATTTCCAGTGAGGAATTAGAAAACAGGGATTATGGAATTGGAAAAACTGAGGCATTA
AAAGTCTTCCTCCTGAAATTACTATGCCAAGTGGAAAATCTGCTCTGAACCCCTATCCAGGAAAACATTCTTCTTCAAA
AGATGTTACTTTTAACTTTGATAAGTCTTGATTAGCTCTTTTGGGTTTTAGCTGTTCTTTCACTATGTCCACACTTTAC
TTATCAATATTAATAAATCTTGTTATAGCCAGAGTGGTTTGCAACCTAAAGTAGAAAATATCTATATCTCAGGGCTTTG
TACCTGATTGCACAGGTAGCAATCCCAGGCTAAGAGTACCCCTTAATGCTGCAATGGCCACAGTAGTCTTGGACAGGGG
GATCATGCCAGTAGGTCTGCCCAGAATCTCTGGATAGATTTATTGTTGAAGACCATTCCTAGACAAATCCATTCTGTAA
AGACTGGAATAAGTATTTACTTCTTTAGATGTGCAGATATTGATACATGTCCTCAAACATCAGATATAATCAGGGAAAC
ATGATGACACCAAATGGACAGAATAAAGCACCAGTGATTGACCTTAAAGAGATGGAGATGCATGAACTTCCTGACAGAG
AATTCAAAATAACTGTTTGAGAAAGCTCAGTGAATGTTGAGAAAAGACAGATAAACAATTTCTTTTAAAAAAGGAGAAC
ATTAAGTGACCCACAATGAGAAACAGAAAAATTGAAATAACAATTTTTAAAATTAAACAGAAATCCTAGAGCTAAAATA
TACAATGAACAAAATGAAAATGAAATAGCATCAACAGCAGACTTGATCAAGCAGAAAAAGAATCTGTAAACTTAAACAC
AGGGTTATTTGAAAATACACAGTTCAGGCCGAGGCGGGCGGATCACGAGGTCAGGAGATCGAGACCATCCTGGCTAACA
CGGTGAAACCCCGTCTCTACTAAAAATACAAAAAATTAGCCGGGCGAGGTGGCGGGCGCCTGTAGTCCCAGCTACTCGG
GAGGCTGAGGCAGGAGAATGGCGTGAACCCCAGGGGGCGGAGCCTGCAGTGAGCCGAGATTGCTCCACTGCACTCCAGC
CTGGGCGACAGCGAGACTCCGTCTCAAAAAAAAAAAAAAAAAAAAAGAAAATACACAGTTCAAGGAGAGGAAAGAATGA
AAGGAAGGAAGAAAGCATATGAGATTTATGTGACAGCATCAAAAAACAAATGTTTGAGTCATTGGTGTCAAGAAGAAGA
AAAAAACAAAGGAGTAGAAAGTTTGTTTGAAGAAATAAAATCAGAAAACTTTCCAAATCTGGAGAAAGAAATAAGTATT
CAGGTCAGGAAGGTCAAAGATTTCCAATCAGATTCAGTTAAAATAAGACTATTCAATACATATTACGATAAAATTCTCA
AAAATCAAAGACAAAGAGAGGGTCCTGAAAGCAACAAGAGAAAATAAGCATACAACACATAAGGGCATTTTAATATGTC
TATCAGCAAACTTCTCAGCAGAAACCTTACAGATCAGGAGGGACTTGGTGATATATTAAAAGTGCTGAAGGAAAAAAAA
AATGCCAGCCAAGAATGCTATACACAGAAAAGCCATCTTTTAGAAATAAATACTTTCCCAGAAAATCAAAAGCTGAAGA
AGTTTATCATTGCCAGACCTGTGTTAAAAAAAATGCTTAATGGAGTTCTTCAAGCTGGAATAAAAGAATGCTAATAATA
CAAAAACATGTGTTAATGCTAGTAACACAAAACATCTATAAATATAAAACTCATTGGTAAAAGTACATAGTCAAATTTA
GAATACTCTAATATTGTAATGGTGGTGTTTAAATCACTTATATCTTTAGAAGAAAGGTTAAAAGACTAAATTAGTAAAA
ATAATAACTACAATAATTTGTTACAGGACATGCAGTATAATAAGATGTAAATTGTGACACCAAAATTCAAAATGTGTTT
GGGAGAATGAGGTAAAAGTTTAGAGTTTTTTAATTTTTATTTTGCAATCCATGTTAAGTTGTTATCAGCTTAAAATAAC
CTGTTAAAAGTAAAAGTGTCTTTTTATAAGCCTCATGATAACTACAATGGAAAAATAACTTGTTAAAATTATGGAAACCT
CGTCTCTACTAAGAATACAAAAAATTAGACAGGCGTGGTGGCGGGCGCCTGTAGTCCCAGCTACTCAGAAGGCTGAGGC
AGGAGAATGGCGTGAACCCAGAAGGTGGAGCTTGCAGGGAGCTGAGATCGTGCCACTGCACTCCAGCCTGGGCGACAGA
GCAAGACTCAGTCTCAAATAAATAAATAAATAAATTTTATAAAGTGTTTTTTATAAGCCTCATGGTAACTACAAAGGAA
GACCCTATTATTGGTACACACAACACAAAATGCAAGGAATCAGAATACACTACTAGAGAAAATCACTTAACCACAAAGA
AGGGCAGTAAGAGAGAAATAAACAAAGACTCTACAAAACAACTAGAAAACAGTGAACAAAATAGCAGTAGTAAGTTCTT

Fig. 6.98

ACCCATAAATAAGCCCTGAATGTAAATGGATTAAATTCTGCAATCAAAAGACAGAAAAATAGATTTAAAAAAAAGACCC
AATCATATTCTGCCCTCAAGGGACCCACTTCACCTGTAAGTACACACATAGATCAAAGGTTAAATGTTATTATATTATA
TATAATTATCTATAATATAAAAACATATTTATATATAATAATGTTATACAGATATAAAATTGAACACACAAATAAATAG
AAAGATATTTCATGTTCATGGATTCAAATAATCAATACTGTTAAAATTTCCATAATACCCCAAATGATCTACAGTTTCA
GTGCAATCCCTACCAAAATATTAATGACATCCTGCATAGAAGTAAAGAAATTTTAAAATTAATATTAGAATTATAAAAA
ACCTGAATAGCCAAAGTATTATTGAGCAGAAAGCACAAAGCTGGAGGCATCACACTACCTGACTTCAAAATACTCTACA
AAGCTAAATTAGCCTAAGCAGCGTGATATCAGCATAAAAACAAACAAACAGATAGACCAATGGAACAGAATACAGAGCC
TGGAAATAAATTCACACATTTGTAGCCAACTGAGTTTTGTCAAAAGTGCCAAGAACACACAATGGTGAAAGGGCAGTCC
ATGTTTATTGCAGCACTATTTTTATGATAGCCAAGATATGGAATCACCTCAATCATCCATGCAACAACATGGATGAACC
TGGAGAACCTCATGTTAGGTTAAATAAGCCAGGCACAAAAAGAGAAACACTGTATGACCACACTCATATAGAATCTAAA
ATCATTGATCTCATAGAAATAAAGAAGTAAATGGTAGAGAGGCTAGACAGGTTGGGGGAGGGGGCTTGGACAAATGGTC
AAAGGATACAAAATTTTAGATAGGAGGAATAAATTCAAGAGATTTATTTCTGAGCATGGTGACTACAGTTAATGGCAAT
ATATTGTATTATTGAGAAATGCTAGGAAAGCGGGTATTAAATGCTCTCCCACAAAGCGATAACTATGTAAGTTGATGCA
TATGTTAATTAGCTAGATTTAACTATTCCACAATGTAGAATACTTCAAAACATCATTTTGTATTTGATAAATGCATACT
TAATTGACAGAATGTCAATTAAGAAACAAAACAAAACCAGCTCATGTCCTCCTGCAATGATTTAGGAATCCCAGAATAA
TTAATAGAGCCAAAATTTCCATCACATTTTCCTTGACTGCCAGTTCCATGTTGGCTATATCATTCTGTGAGCAAGTTTT
CATTTTTTAACATTTAGTATGTTTACTCAGTAATCAACATATTTGCTTATAAGTAGTGACACAGATATTCAGCCGCATA
TATTTTTCTAAACTGGTATCCTCTTGTTTCTGCACCATTTATTGAAAAAATCCATCTTTTTTTCTAGAAGTATGAGTTT
TTGATTGCTTAAATAGAATGGAAGGAGAAAAGGAAAATAATTAACTTTCAGATTTCACTAGGTTTTGGGTTTTTGCAAC
ATAAGGAGTATTCCACTTAGACTTCTGGAAAATTTCTATTTTTAATCCAGGTTTATTTGTTGACCAGTGCCTTTGAATA
GTTTTCCCGTTAGTTGTAAATAAAGGATTTCTTTACTCTGTGTCCTTGGTTTTCCTCTTTACCTGATATTTAGAATTAT
TATTGATAATTTAGTAATAATTTTATCATTAATATCCCAATCTATTGCTTGATTTGTCATCATATTGAGAGTTTGAGAA
GAATTTATTTTTATTAAATTATTTTCCTTAAAAACAAAGTGTTATAAAAGAGAGGGTTAATAGAACAAAATGAAGAATA
AATAGCTATTAAGAGGCTAAGTGGTATTAAAGACAGCTCTGTGGCATTTTGAGGTTAACATATTTAAATGATACATTCA
TTCCTAGACAGATAGATCAGCATTTACCAGATGGTTTCTGCTAGAATGCTCTCCTCTCCAATATCATCATCTCATTTGT
GGTGTGTACAGATTTCCAGAAAGTCAATGGGGATGTCCTGGGGCTAGTGGCCAGGCTTCTTCTTTTCATTTGTATTCA
AAGCCAATATTTTTCTTTCCAAATCTTGCCCCTTTCTTGTTTAACTCAAGGCTTGGCGTGGTAGGGGAGGTTGGGAATGG
TGAGAAATAGTGCCTCCTTGAATGAAAGGTTGGAGGAAATAAGTTTACAGACTTGGCAGTGCTAGTTAAGGGCACACCC
CATAAAGAAGTCTCAATATGGTTAACTAGTTTCCAGAGCAGTGCTACAACTGAGCCTTGTGCATCCCTGAAGTGATGAG
CACAAGTATGATAATCATCGGAAGAGAACATATATTGTATAATTTGGAATCAGCCAGTTATTTGTCAGACTACCTTTGC
TGTCTGTAGGATCAGACACACATGTGCCTCTGCATTTGGGTAAATGTAAAACCACATTTCCTATTATAAAGAGGAAAGA
CTGCTGGAAACAGCTGCTCTGGAAACCAAGTTGCTCAGAGGAAGTGAGCTAAACTTGTGTTTAGCTAAATGGTGTGTAG
CTAAACCTACCCAGTGAAAAAAATATGTAGAAATGGACTCAATAACTTTCTCAAGAGATGAAAATATAGAGTAATAAAT
AGGCAAGAAAATAGGGATAGAAATGGAAAAAGTGGAGAGAGAATAACAATGGGAAAGGGAAAGAGGAAACACGCTTATG
TGTTGTAGTGACTGACCAACGCAGTTTATGAAACAACATAGCTAGCTCAGGAGTTAGCCCAGGCTTTCAATTAAAAAGA
GATGCATAAGCCCATATACCTCTTTTTCTTTCCCTCAAAATGACCTTGAGTTTTAGTTTGGTAGGGTTTTGGTACAGCT
GTTATTTGATAATATCACATTGTGCTTTTCAATTAACTTAGATTGTTTAAAAAACAGATAACTGAAAACCATCTGTTTG
TGGTTCTGTGTAATTTGTTCTCAGGACAGGGACTAGGAATGAACCATTTTAAATTCTGCTAATGAAACCTCTCATTAAT
TTAAGGAGTTCTACAAACTAAGTCTGTGGTACCAGGTAGAAGGGGTGCCAAGTGTTGGGCTTTCTGGGATAAGGGAAAA
TTAATTTCTTCCTTTGCCATTTGTGGTTGGGTAGCATCTTTTTTTTTTCTTCCTGGCAGCGAGTCTCATAATTTAATAT
GCATTAACATAATCAGGAATGATTGCTTAAAATACATGTTCTTGAAGTTTATCCCAAGAGATTTTTGATTCAGTATCTC
TGGGAAGGGCTCCAGGAATTGCCACAGTTAAACAAGCTCCCCAGGTCATTCTGATGTAGATGGTCTGAAGGCCACACTG
ACTAATGCTGCCTTTTAGAATTGGGAGGTAAGTTTGGATTTTGTAGATCAAATATTACTACCAAGAATAAAAGAAATAC
ACAAAACCTCCAAACAACTCAAATGATGTAACAACAAAGCAAATGGCTCAAAGCAAACAAAACCCAACAAAAGGTTTTA
AATAGGTCCTTAGAGATACAATGTAATTTGTCTCAGCTGCGGAGACTTAAAGAGGCCAACTCTTAGTTGACATGGAAGA
ATAGGGACAACATTGCCAAGAAACATGGTTAATTTCAGTTATGGATACCAAACCCTGGGCTCTGGAAAGCATTAACAAT
TTTACCCACTATGCTAATCTTCCATATATGGGGCATGCTGGATAAATCTATTTTGCTAACGTCTCTTTTACAATAATGT
ACTTAATTTTGTTGGGTATATATTCTAATTTGTGTTTTCTAATTCAAGTTCTAACTTTTAAAGAGGCCCCCACCCCCAC
TGTTTTCCCTCGAGCTTATTAAAGGGCATAATATCACTTTCCTCTTGTTAAGAGTAAAGATTGGAAGAATTTAGTTATC
AGAAAATGGTGGTAGGTTGATGCTTTTGGTGGTGGACGCAGCAGTCTGATGAATAAGCATCTTTCTTGAAGACCAGGGT
TCTGCCACTAAAGATGTATGTGATTTCTAGAAAAATAATTTTACCTCATTGCATCTCAGTTTTCTCCTTTGTAAAATAG
GGATAGTGGTAAGTGAATGATTTCTGTGATCCTCTCTAATGCTAAATAGAATGAGAATGTGCGAAGCCTTTGTTATCTC
AGTAAACTTTACCACAATTCATCTGTAACGACAAAATGTTATTATTAGAAACATATTAAAAAGCTTGCAAGTGGCATGA
ATTCAGGCACTGTAAATGAGTGTAGTGCAGTACTGTGAAGGTGAGGGGAAAATATGCATGTTTCAATCATAGGGCTACA
AGTTTGCACAGATCTGAAAAATTACTGTTGGGTTTCTTCAACTAGGGGATCCAGAATATCACTGTTATTCATACCTCTT
GCCATTAGGTGGGGCAGTTGAAGAGTAGGAAGACCGTTTTCAAGTGAAATGTTGTTTTGCTTGAGTATGTTGTTTCATA
CTCAACAACATCTGAAAGTAAGTGGTAAAATAGACTTCCTTTTATATAGTCTAAACTCTCAGTGGCCAGATTATTAGTT
TCTTTATTAATTCTGGATGGTGAGGAAGAAGGGGGACATGGGTGATAAAGTTAATGTAATGTAATATTGCAGATTGTAT
TATTAATGTAAATTCCCATTTGGAACTCAAAAGCCAAAATGGATCTGAAGTCAACTTATGCAGTCTACTTTTTCAGAAG
AACAATTAAATAGTATGAGGTAGAGACAACAAAATACCAGGTTTATGGAACACTAGAAAGTGGAAAGGAGCCATGAGAG

Fig. 6.99

TTATTGCGGCCCTTCTCTCAGTGTCTATTGATTTCCTTTAGCATCTGGGGTACTTAACTATTTCCTTCTCCTTCTACTT
TCTTTTAGAAAATTCTATGTCAATTAATTTATCTGACATCTTAATCGATAATTCATTAAGAAAATCTTTTGTGCCCAGC
ACATCATGATGAATTTTGATGGCTAATGTTACCTGGTCTCTGTTTTGAAGTGTTTTATTGACTTATAAATTTAAGATG
TTTTCCTAGAATTAAAAAAATGACATGGAAAAACTTCAAATCAGTCTTTTATAAGGTAGTGACTTTAAATTTTCATTTG
TCAATTTCCACATTTAGGACAAAAAGTAAGAGATGTGGAGAGGAAGACAGGAATACTAGGGAAAAGGTGAGAGAAGAAG
TATTTCTGGTTACTTCTGTTGTATATTCTTAAAAGTAAGAGTCCATAGAACCATGATAGTCAAAGTACTGAGGAAACAG
CAGATTTGGAAATTTACATTTCATATCAAAGGGATTTTCTGTGAGACAAACCAATGAGATTTGATAGATTAGAAAGGAA
GGACTAATAAAGAAAGCAACTGAATAAATACTTGAATAATAAATGATATGTGTTTTTCACACTCTGGTCCAGTTATTTT
TTTTTCTCTTTTAAAAAAAATTTTGTTAGTGTTTTTGTGTGAGATAGTTAAAAGTTCCTGCAATCCACAGAGCTCTATA
TTTGATTAATTCTGGATTCCCAGCAAGTTTGCATGGCTTTTCAGAGGACTACAAAATAGGGAAAAGACTAAATTCAATA
TAGAATTGACCCATGAAAATCACGGGAGTTAGTGGTACCAACCCCTGTGCAGCTGAAAATCTGTGTGTAATGTTTGACT
TCTCCCAAAAGTTAACTACTAATAGCCTACTGTTCACCAAAGTCAATTAACACATAATTTTTATGTTTTTGTATTATAT
ACCGTATTCTTACAATAAAGTAAGCTAGAGAAAAGAAAATGTTATTAAGAAAATCATAAGAAAGTGAAAATAGATATTT
ACCATTCATTAAGTGGAAATGGATCATCATAAAGGCCTTCATCCTCTTCATCTTCATGTTGAGTAGGCTGAGGAGGAGA
AAGAAGAGGTCAGGTTGATCTTGCTGTCTCAGGGGTGGCAGAGGCAGAAGAAAATCTGCATGTAAGTTGGCCTGTGCAG
TTCAAGCCCATGTTGTTTAAGGATCAACTGTAAATCTTTTAACTTTTCAAATGACGCTCATTCACACAAAGAAATTTGG
AAGTAGACAGGATTTATATGCAGCTATAATTTTAAATGGCAGCCAACATCATGAACAAATTCTCCTGACATCTCATTCC
TTGATTTCTAAGAAGTCAATGCAAGAGGAAGGTGAGAATCAAATTTGGGCAGCTTTGCTCAGCTGAATATTATATGGTG
ATGATTATGTTAATAATTAAAATATTGAAATATTTATTTAGTACAGTCATTCACCATGTAACATTTTGGTCAGTGATGG
ATGGCCTACCATGGTAGTTTCATAAGATTATAATAGAGCTGAAAAATTCCTATTGTCAGCTCTACTGATATCACAGCCA
TCATAAAGTTGTAGCATAACATATTACTCATATGTTTATGGTGATGCAGGTGCAAACAAACTCACTGCATGGCCGGTGA
TATAAAAGGATAGTACATACAGTTATGTACAGTACATAATACTTGATGACAAGAATTACTGATAATAAGTGTTACTGTT
AAGTACTTAATATAATAGATTACGTCCCTGATTTATGTATTTACTATACTATACTTTTTAATCATTGTTTTAGTGTGTA
CTCCTACTTACAAAAAAAAAAGTTAACCATAAAACAACTTCAGGAATGAGTTTCTTGAGGAGGTGTTCCAGAAGAAGGC
ATTGCTATCATAGAAGATGACAGCTCCATGTGTGTTATTGCCCCTAAAGACCTTCCAGTGGGACAAGATGTGGAGGTAG
AAGACAGTGATGTTGATGATCCTTATCCTGTGTAGGCCTAGGCTAATGTATGGGTTTCTGTCTTAGTTTTTAACAAAAA
AGTTTAAAAAGTTAATTTTAAAAAGCTAGAAAAAACTTACAGAATAAGGATATAAAGAAAGAAAATATTCTTCTACAGT
TGTAAAATATGTTGGTGTTTTAAGCTGAGCATTATTACAAAAAGTCAAAAAGCTTAAAGAAATTAAAACGTTTATAAAA
TAAACATGTTACAATAAACTAAGGTTATTATTGAAGAAAGAAAATGTAAAAAATAAATTTAGCACAGCTTGGCCTGGCG
CGGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGCGGGCGGATCACGAGGTCAGGAGATCCAGACCATTC
TGGCTAGCACGGTGAAACCCCGTCTCTACTAAAAATATATATTTAAAAAAATTAGCCAGGAGTGGTGGCGGGGGCCTGT
GGTCCCAGCTGCTCTGAAGGCTGAGGCAGGAGAATGGCGTGAACCCAGGAGGCGGAGCTTGCAGTGAGCCGAGATTGCG
CCACTGCACTCCAGCCTGGGCGACAGGGCGAGACTTTGTCTCAAAAAAAATAAATAAAAAATAAATAAATTTAGCATAGC
TTAAGAGTACAGTGTTTATAAAGTCTACATTAGTAGACAGCAATGTCCCAGGCATACTCACCACTCACTCATTGACTCA
CCCAGAGCAACTTCCAATCTTGTAGCCTCCATTCACGGTAGGTGTTTTCTACAGGTATATTTTTATCTTTTACCACATT
TTTACTGTATCTTTCCTATTTTTTATATGTTTAGATACACAAATACTTACCATTGTGTTATGCTTGCCTGCAGTATTCA
GTACAGTAACATGGCATACAGGTTTATAGCCTAGGAGAAACAGGCTATACAATATAGTCTAGGTGTGTGTGTGTTAGGC
TATACCATCTAGGTTTGTGTAGGTATACTCTGTGATGTTGACACAACAACGTAATCACTTATGATGGATATCTTAGAAC
ATATTTTAATTATTAAGTGACACATGACTGTACTTAATATGTATTAGGTACCAAGCTAAGCATGCAATTAACTCATGCA
ATCCTCACAATAACCTTATGAATTTAGTACTATCAATTAGCACCATTTTTTTCCATGGGAAATAGGATATAGGATATTC
TATCACAAGCATACCCTCAATGCTAGAGGAAAGAAAGAAAGAGACGAAGAGGGTGAGAAAGAGAGGGAAGGAAGGAAGG
AAGGAAGGAAGGAAGGAAGGGAAAGAAAGGGAAAGGAAAAGAAAAAAGAAAAAAGAAAAGAAAAGAATGGTTCATTTTC
TGTTTGTATTTAAATAATATCACATTATTATTTATTGGGAAAAGCTAACTGAGTTGGGAGCAGTGATGTAGGTTCGTAC
CACCATTAGTTGAAATCATTGCACTATCTGAGAAGAAAGACCATGAAATCTAGGAAGTTTAAGAAGTTAGTTTTCGTTA
GATCCAAATACTGTTAATGTTGGCTATCTTTTTTGGATCACAATTTAAGAGAACAGATTCCTTTAAATGAATTGGTTGA
GGAAATGAACAGAATATTTACAAATATTTCTCCTTAAGTGATATTTCATTAGGGAGAGGTCTTCCTTAATGCCTGTCTG
AAATAGCACCCTCCTCATTCTCTAAATCTTCACCTGCTTTATTTTCTCTTTGTAGAACTTACCACCTGACACATTTCAC
AGTAGTTTGTTTGTAGACTGTCTTCCCTCTCTAGCTTCATAGGTACAGGGAATTTCTCTGCTCTGTTCACTGATAATTT
TCTTGTACCTAGAACACTGCATGGTACTTAGTAGATGTTCAATAAATATTTGAATGAATGAATGTATAAGTAAAATAAG
AAAATTCATGTGGCCAATAGGTAATTTAAAATATTCTGCTTTGCTAAAAACCAACAGAAGTAAAAATAGGTAAAAGCAA
TTAGTATTTTCATCTACCAACAATGATTTAAACATATTCAAAAAGATATATACCCAATGCTCATGAAGGTGAAGCAAAA
CAAACATTCTTACAAAATTGAAAAACACTTTGCTGGAAAGTACTTTGTGAATATGGTGTCTTTAAAAATGTTTCTATAC
TATATTTTAATTCTATTAATATATTCAGGAAAGCAATCCATAATTAAAAAATATCTTTTGCTGCACAAAAGTCTTTGCT
TCAACAGTATTTATTGTAGTGAAAGAAGTTCAAAAAATTCTAAGTTCCAAAGGTAGGGGCACAGTTAAATGAATTATGA
CAACTCTCTTTCATGGTATATTATATAAGCATCATGAGTTAGGTTTACTAAGAGCTTTTTTAATATGAAAAAAATGCTA
ATGAAATAAATTTAATTTGAAAAACAGCATAAACATTGGAATAAATGACATCTTAAAAGCATACATAGAAAAAATGGTA
GAAATTGTGCCAAAATATTAACAGAAACTAGGGCAGGTAAGATTATGGGTGATTTTGTTTTATACTTCTCTATACTTTT
ATTTTTCAAGTGTTCCAGAATGAAACTTTTATAATGAAAAAAAGTTTTAAATATTTTAACTGATTTTGTATTATACTAG
TGATAATCCAGAAGTGATTATGTTTTATACAATAGACTATGGCTTTATATGAAGAAATGAATATAGTCTAGTATTGTTT
TTATTATCTAGGAATATACATGTAACTGAAGAATTTATGAGTAAAGTTTAATATAAGCAAGTAACTGGGACTTCTGGAG

Fig. 6.106

GAAAGCTCACTCTAGGGGAAGCTCTCAAATGTGTTTTCAATCTTGGATTCCAGTCAAAAAAAGACATGAGTTACTTGGA
TTTAATAACCAGATATACATTCTCCTCCTTTAGGACTAGTGAAAAATGGGCACTGAGTGAGCTTGGGCACAGACTAATA
AAGGATATTCAAACACGATAAACAAACAGTAGCGAGGCCCGAGCTACCTGGGCTTAGAAGGCAGCAGGGCCCCCAGAAA
GTGGTAGTAGCAACAATTACTGTGGTTTTATCCTGTGGCTAGCCCAGGTTCCAGACAGAAAGTTCTTCCTGGCCTCTTA
CCCTAGTAACTCTGAGGACTGTACCCTTGATTCTTGGATTGTTAGACACATTTCCACTTCTGGCTTTGGCCCTGCAACC
CTGGTACCTAAATTGAGCAGCTTGAGCACACAAGTTCCTCATTCTTTCATTATGTATGTCCTTGTTAAGAGACTGTGAA
ACATCCAGAATACTAGGGCAGCAAGCCAAAGCACAGCCTCTAATAACAAGGCTTTCCATTAATTTGATTCATTTAATGA
AAAGCTATGTGAACTATTGTAATAGGTTCAAGAACACACCTTAATTCTTGGACTGTTTTTTAGACCTTTAGAAGTCGAA
GGCCTCTGAAATTATATGAGCTTGGGTGTTGAGATAGAGGAAACATGAAAATTTATTCTACCTGAACCTCTGCAGTTAT
AAACTAGCATCGTATAATTTATTTATTTATTAAGTCAAGGTTTATAAGTCATTTCCACAAAGCCTAGCACACAGTGTCT
AGCATATATAGTAGATGCTTGATAAATATCTGTCAAGTGAATTTCAAATACTTAAATTTTGTTGTTAATACATTCATGT
AATGGAGCCATATCATCTCATATGAATGATTGAAGAATACAAAAACTCCAGACTTGAATGCAGAATATATAAAGAACTA
GTACAAATCAATAAGAATGAGACACACATCCCATTAGGAAAATGAGCAAAAGACTTAAACAAGAAGCCCTTCACCAAAG
AAGAAATCCAAATAGTCAATAAGCATATAAAAAGGGGCTCAATCTAATCATTGAGGAAAACCAAACCCATAATTCAATA
CAAGTACACACCACAAAAATTGCTACAATAAAAAAAGATAGACAATGCCTAGTGTTGGCAAGAATGTGGAGCAACCAGA
ACCCTCAATCACTTCCTGTGATAGTGTGTATTGGTAATTGGCTTGAAAAACTCTTTGGCAGTATCTACTAAAGCTGAAC
AAATGCATAACCTATGACCCAGTAATTCTAGTCCTAGATGTATCTCAAACAGAATTGCATGCAACTTTTCATAAAAGAC
TATACAAGAGTGTTTCATGGTAACACCAGTATTAACAGACAAAAGCTGGAAAGTACCCAATGCCCATCAAAGAAAGAAC
CAACTAATAAATTGTAATATATTCACAAGAACCTAAGAATACAACTCTAATACTAATCAGCTGTGAGAATGAATGGATA
GCATGTAGTTGCAACTACATTTTAAAAGATTAATTAATCTCTCAACATAAGGTTGCCAGGCACAAAAGAATGCATACTA
TATGATTCCATTTAAACAAAGTGCAAAAACAGGCAAAAGTATTGTTTTGGTTTTAGAAATCAGGATAGTTGTTACCCTT
ATGGAGTAGGAGAGCTACTGCCTAGAAGAGGGCACATAGGGGACTTCTGGGTGCTGATAATATGCTGCTTTTTGATCAG
GGTGCTGCTTATGTGGTGTACTCTTTATAAAAATGTATTGATGTTTACACTTACGTGCAATTTTTGTATACATATTATT
CTTCAATAAGAAGTTAATAGGGCCGGGTGCAGTGGCTTATGCCTGTAATCCCAGCACTTTGGGGGGCTGAGGCGGATGG
ATCATAAGGTCAGGAGTTCCAGACCAGCCTGGCCAAGATGGTGCAACCCCGTCTCTACTAAAAATACAAAATTAGCCAG
GTGTGGTGGCAGACACCTGTAATCCCAGCTACTCAGGAGGCTGAGGCAGGAGAATTGCTTGAACCTGGGAGACAGAGTT
CTCAGTGAGCCAAGATGGTGCCACTGCACTCCAGCCTGGGCAAGAGACTGAGACTCTGTCTCAAAAAAAAAAAAGAAGTT
AATAGAATTTTTTCATTCTTTTCAATTAACTTACCAAATCCTGGTATTGAGCTTACCATGTGATACATATAAATGCAAC
CCCAGAATATCTCCTGATATGATCTCATGATGCCATGGGAAGCAGTAAGTCTTTTTGAAAAAAAGCACTGTTTCACTTA
TTAAAATGCCAAATACATTTTACCAGAATTTATTATTGAAACAAATCTTAGTGTTATTTTTGACCTGCTGTAATGCTTT
TGCTTGTTTTTTTATTATGGTAAGAACATTTAAATTGAGATCTACAATCTTAAAATAATTTAAGTAGACAATACAGTAT
TGTAAAGTACAGGCACAATATTGTATTGACAATCTCTAGGACTTATTCGTCTTACATAACTGAAACTTCATACTTATCT
AACAGCAATCCCTCATTTCCCCCTCCTCAGACCCTGGCAACCACTGTTTTACTCTGTTTCTCTGAGTTTAACTATTTTA
ATTTCTTATCAAGTGGAATCATGCCATGTTTTTTTCCCTGTAACTAGCTTATTTCACTTAGCATAATGTCCTCTAGGTT
CAAACGTGTTGTTGCATATGGCAGGATTAACTTCTTTTTAAAGGCTGAATAGTATACACACAACCACTACATTTTCTTT
ATCCATTCACCTATCAATGAACATGTAGTTTGATACTATATCTTGGCTATTGCGAATAATGCTTCAAAGAACATGGAAT
GCAAATATCTCTTCAACATACAGATTTTATTTCCTTTGGATATATGCCCCGAAGTAGAAATTCCAGATCATATGGTAGT
TCTATTTTTAATTTTTTGAGGAAGCTTCATACAGTTTTCCATAATGACTGTCCTAATTTACATTTCCACCAACAGTGTA
CAAGTGTTCTCTTTCCTTTACATCCTTACTAACACTTCTTTTCTTTTGTCTTTTTGATAACAGCTATTCTAATAGATGT
GAGGTGATATTGTGGTTTTGATTTGCATTTCCCTGATGATTAGTGATGTTGAACATTTTTTATCTACATGTTAGCCATT
TGCATGTCTTCTTTTGAGAAATGTCTATTCAAATCCTTTGTCAATATTTTAATAGGGTTATGTGTTTTCTTGATACTGA
GTTGTTTGGGTTCCAAATATATTTTGGATACCAAACTCTTATCAGATGTATGGTTTGCAAATACTTTCTCCTATTCCAT
GGGTTGCCTTTTCACTGTGTTGTTTCCTTCGCTTCCTGGTTGCATTTTAGTTTGATGTAGTCCCACTTGTCTAGTTTCA
CTTTTGTTGTTTGTGCTTTTGATGTCATATCCAAGAAATTATTGTCAAGACTAAGAAAAAAGAGAGAAAACTCAAATAA
ATAAAATCACAAATGAAAGAGATGGTACAATTGATGCTACAGAAATCAAATGGATCATAAGGGACTACTATAAATAATT
ATACACCAACAAATTGGATAACCCAGAAGAAATAAATTCCTAGAAACACACAACCTCCAAAGATTGAATCAGGAAGAAA
TAGAAAACCTTAATAGACCAATAACAAATGAGATTGAAATCAGTAATAAAAAACCTCCCAACAAAGAAAACCCAGAATC
AGGTGGCCTCATTGGTAAAAATTTTTTCTTTTTTTTTTTTTTTTTGAGACAGAGTCTTGCTCTGTCACCCAGGCTGGAG
TGCAGTGGTGCAATCTCGGCTCACTGCAAGCTCTGCCTCCTGGGTTCACACTATTCTCCTGCCTCAGTCTCCAGAGTAG
CTGGGACTACAGGCGCCTGCCACCACGCCAGGCTAATTTTTTGTATTTTTAGTAGAGATGGGGTTTCACCATGTTAGGC
AGGATGGTCTCGATCTCCTGACCTCGTGATCTGCCCGCTTCAGCCTCCCAAAGTACTGGGATTACAGGCATGAGCCACC
ACACCTGGCCCCCTCATTGGTAAATTCTACCAAACATTTAAAGAAGAATTAACACCAATCCTTCTTAAACTCTTCCCAA
AAAATGAAGAAGAGGGAACACTTCCAAATTCATTTTAAGGCCAATGTTACCTTGATTCTAAAGCCAGAAAAAGACACTC
AAAGAAAGAAAATTACTGATAAATATTTCTGATAAATATAGATGCAAAACTCCTCAACAAAACACTAGAAAACTGAATT
CAACAGCGTACTAAAAATACTAAAAGGATGATATACTATGATCAAGTGAGATTTATCCCTGGAATGCAAAGATGGTTCA
GCATGCTCAAATCAATTAATGTACTACATCACATTAATGGTAGGATTAAAAATAACATGATCATCTTAATAGATGCATC
TTAATAAAAGTTTTTGAAAAAATTCAACACCTTTTCATGACAAAAACTCTAAAATACATTAGGTATAGAAAGAATTTAC
CTACATATAATAGAGGCCATATTTTTGACAAGTCTACAGCTAACTGAATACTCAGTGATGAAAAGCTGAAAGCTTTTTC
TATAAGGTCTTAATCAAGGCAAGGACATCCATTTTTGCCATTTTTGTTCAACACAGTAATGGAAGTCCTAATCAAAGGA
ATTAGGCAAGAAAAAGAAGCAAAGGCATCCAAATCAGAAAGAAAGAAGTAAAACTATTTCTCTTGGCAGATTACATGAT

Fig. 6.101

CTTATATGTAGAAAACCCTCTTTCTACAAAAATCTGTTGAAACAAGCAAATTCAGTAAACTTGCAGAATATGAAATCAA
CATGTTAAACTCACTTTTGTATCTGTACACTAACAATGAACTATCTGAAAGGAAATTAAGAAAAAAATTTATCTACAA
TAACATCAAAAAAATATAATATTTAGGAATAAACATAACCAAGAAGGTGAAAGACTGAAAACTATACAACGTTAATGAAA
GAAATTAAAGAAGATGCAAATAAATTGAAAGACGTTTTGTGTTTATGGATGGGAAGACTTAATACTGTTAAAATGTCCA
TACTACCCAAAGATTCAATACAATCCTTATGAAAATTCAAATGGTAGCCAAGTGTGGTGGCTCACACCTGTAATCCCAG
CACTTTGGAAGACTGAGGCAGGCAGATCATTTTGGGAACAAAATGTAAAGTTGCTTCTAAAAGAGATTTATGAAGTTTT
TTGTTTACTCTATGTTTAATTATTTGCTGAGTACACTTATCACATTGAGATGGGAATTTGAACAAGATCTTTGTACTTG
ATTAGAGGGAATAAAAACAGCACACTTATCAAATAATCAGTGTGTTATCCCATAATTCAGCTTGTGGCTTGCTGAAAGT
TGACTCTTGTGTAAAAGATTAGTTACTTTTTATTGTTTTAAGGCTAGAAACATAGGTTCTATTTTTGTCAATGCTACTA
CATCCCACAAAGTGTCTATATGAGCCATTTCCAAATTTCCATTTATGATAAGGGGCTGTGATGCATGAGTATACCCACG
TTTTTACTGACATGTGTAGAGACAAACTCATGAGTTTGCCTAGTTACCTTTTATTCTGTATTCACAGATTTCCAAACCT
TCGGGGTTAGGCCATACTTTCAGGGAAGTGGGTGAGCTTTATTATTGAGGCCAAGTCTTCTATCTCTGTTTAGATGCAA
ACCTAGTACTTAGGGACCTTGTCATATCTATTTCTGCAAAGTACTTTCTGTACTTGTCAAGATCAATAACTGGTTTTA
TAATGACAGAGGACACAGAATTTAGCCTTCAGAACAGAAATGGCTATTTACCATGCGAAAGTATTTTTTTTTCTGACA
CCATCAGACCAGTGAGCATAGATTTCTCTCTGAGAGACACTTTTTAAACACAAAAATTACCTATTTATCTTGTTGCATA
GCAGCTCTGTCAACTAAACAGTGCATTTAATAATAATGATAATACATAAAAAGTCTAGTATTTCATGGTTTACAAGATA
TTTTCCACATTAATTGTCCCATTGGACCCCCCAAAATTCTATAAAGTGGTCATATAATGTATTATGCCATTTTGTATGG
GGTAACTGATGAGGTAACAGACCAGAGACTGAGCCTAGTTTGCCCAGCTAAGAACTATCAAAGCCAGTCTTCCCAACTC
AGTCCATGATCTCTTACTATTTTACTTCAGCCCTGTAAGATTCATGGTTGTATTTCCTTCCATATAGAACTATGGAATA
ATAATTACTAATTTAGAATATTATATAGTCCATTTTGTACAAATTGTCTAATTTGTATAGTACTATCCTAGTACTAGTA
TATATAATTCTATATACTAGTCATATATACTAGTATATAGAATTATATATACTATATGTATGTATATATACACTAATAT
ATATAATTATATACACATATGTATTACATATATGTATATATTATATATACTAGTATATATACTATATATAACATATGTA
TATATAGGATTATATATAAATTATATACTAGTATATATAATATGTACTTGTTATATAATTATATCTACATATATACACA
TATATGTAGTACTATATCTACATATACTATATATCTGTATATATATAGTACTAGTATATATAATTATATATACATATAT
GTACACACATATAGGATGCTATGAGAATGCATAGGAAGGGAACATAGTCCTAGAGTATCATAAACTTTCACTCTGTGTC
CAAAGTCTTTCATTAAATGATACCAGAACATAGGATCTACTGAAATTCTAAATGGCCAGTTGGAAGAGGAAGGTCATGT
TTGGGGAACTTGGTTAAAAATTACCTTTAGTGGAAAAGAAAGATAATAACTCAGTAAAAGTAGCTAGTAGGCTGGAGCA
GAGTGTCTATGTTTGCTATGGTTTGAGTGTATCTCCCAAAATTCCTGTATTAGAAACTTAATCCCCAATGTAGCAGTGC
TGATAGAGTGGAACTTTTAAGAGGTAATTAGGTCATAAGAGTTCTTCCATCATGAATAGATTAATGCTGTTATCATGAG
AGTGGGTTAGCTATTGCAAGAGTGGCTTTGGCATAAAAGCAAGCTCTCTCTATTTCATGTGCTCTCACCGTATGATGCT
TTCTGCCGTGCCTTTGTCAGGTGCTGATACCATGCTCTTGGCCTTCACAGCCTCCAGAACCATAAGCTAAATAAACTTC
TTTTCTTTGTAAGTTACTCAACCTATAGTATTCTGTTATAGCAACAGAAAGTGGACTAAGACAGTGGTTTAACGTCTGG
ATTTCAAAATGAAAACCTGAAAAAGAAAGAATGGGAAGAGGTCTTACAAAAATATCAAATTAGGCTCAATTTTATTGAC
CACAGTTTCTTAAACATAGATATCTCTCATATATTATCAAACACTTATGGTGAAACACTACATTTTTGTTCATAGGAGT
TCTCCATAGCAGAATTCCTCCATCTCCCTTTACTTTGCCCTGAAAAAATCAGCACCCCAGGAATTCTTTATCTTTCAAA
GACGGCAACATATAAATAAGCATTTGAGTTTCCCATACAGGAATTTTTTGCAAGTCTGGCTTAGAAAATGGCCATGTTC
TATTCAAAACTCTTTGAATTTCTGGTTAAATAAAAATGCCAACTATGCCTTTTTCATTAAATAAGTCTATCTTTCATTA
TCTAAATGTATGTCCTACTATAAGTTCCCAATGGCAGCTATGTCCTTGTGCTTAGGGATTGCAAGATGAAGGTTAACTA
TTAACGACAGTGTTTCTGAACCTGAAGTTATTAGAAAATCTTTAGGGACTCCTTGGACTCTTGGAAATTATGTACAAAA
TTATAATGACTCATTTGTACAGTCATCCCTTGGAATCTGTAGGGGATTGATTCCAGAGCCAAATACCAAGACTGCAGAT
ACAAAACCCAGTGGATGCTTAAGTTCCTTACATAAAATGGTATAGTGTTAATATTTAACCTATATTCTTCCATACACTT
TATCTCTAGAATACTGCTAATAACTAATAATATGTAAATTCTATGTAAATAGTTGTTATAAACAATGATTTTTATTATT
ATTTTTGTGGTTGTATTGTTACTTTTGTGGAATATTTTTAATCCCCAGTTGGTTAAATTGTGGATGAAGAACCTACTAA
TATAGAGGGTCAACTGTACATTCTCTTGGGAAGTATATTCAGAGCTTTCATTAGAGACTTAAAAGGAACCTATGTTACT
CCCCTGCCCCACCCCCAAAAAAGTTAGGAACTACTGCTTGGTGGGGGTAATAAACTATCCTTGGAACATCAGATTCTTT
AGATACATCATAGAGAATTGGCATCTAAAGAAATATTCTGTGGTAACCAGCTTCCAAGATGGCCTCCAGTGATCTGCAC
TTTCTGGTATTCAGATTTTTGGGTCATCTCCTTTCAAATTGTATCAGGGTTGATCTCTGTGGCCAAGAAAATTCAGGAG
GAGTTATGATGTGCCACTTTGGAGGTTAGGTTATAAAAACTGTGGCTTCTGTCTTGGTTACAGTTTCTCTTTCTCCAAT
CACTCACTCTGGAGGCAGCTAGCTGTCAACTCACAAAGACACTCAAGCAGCCTATGGAAGAAGGCCACATGGTAAAATA
TGGAGGCCTCCAGCCAACAGTCAGCAAGGAACTGAGACAAGTCAACAACCATGTGAGTGACTCGAGAAGTGCTTCTCTA
GCTCCAGTTGAGACTTGCAGTAGCAGCAGCCTCAGCTGGCGGCTTGACTGCAATCTCTTGAGAGACCCTAAGCTCTCCT
GAATTCTTGATCCTTAGAAACTGTGTGAGGTAAGAGATATTTGTTGCTTTAAGATGCTACATTTGGGGATAATTCATTA
CACAGAAATAGATATCTCATTCACATTATCTTGACTGGTCATGATTAAAAGAAAAGTGAATGTAAGAAAATAAAGTGTT
TTTAATGCTGACCTTCCCTGTTAATCCTAGAAAATTAGAGTTTGAAATAATAATGTCATAGTCACTATTCCTTTAATCT
TGTTGGTAAATAATGAATGCAGCGTGGCCCATTCACCGCCAGCACTTGGTCACCATTGTGATCTACACAGCAAGAAGCA
GCCTAACGACCTGTCTGTTGAAACAAACAAGTTTTCTTTTAAGTGATTTCTTTGTTTCCATTTATAAGGCACCAACTTT
CAAAGGTGTTCTGGGAAACCTTTCTTGTATTTCTTCTAAGCAAAATCAATTCAACAGAGAGTTCACGCTTTGCCTGTGA
TCAATGGGGAAGTACCAGTGTAGCTTTCTTTTTTTTCCTATAGGGCTGCTCATAGTCCTCCGATAGACTTTACAGCTGT
TAGTTTTGCTGCAGTAGTGACTTGCTAAAATGGTGGCTCATTTGAATGGTGCTTGTATTAATTTACACTCCCACCAACA
GGGTACAAGGGTTCCCTCTTCTCCATATCCTCCCCAATATTTATTATCTTTTTTTCTTCTTCATAATAGCCATTCAACA

Fig. 6.102

GGTATGAGGTGATATTGTGGTTTTGATTTGCATTTTCCTATGATTAGTGATGTTGACCACTTTTTCATATATCTGTTGG
CCATTTGTATGTCTTTTAAGAAATGTCTATTCCGATCCTTTACCTTTTTAAAAAATGAGTTATTTATTTTCTTGCTATT
GAGTTCTGTATTTTGAATATTAACTTCATATCAGGTGCGAATATTCATATCGGATGCAAATATTTTTTGTTATTGTATA
GGCTGTTTCTTCATACTGTTGGTTATTTTCTTGTGGTGCAGATGTAAGCTTTTAGTTCGATGCATTCCCATTTATGTAC
ATTTGCTTTTGTTTCTTAATACACCTTTGTATTGAGTAGATCAGATCCTTTATGAAAGCAAGAAGGGATCAATGATTAC
CTGATGGAGAAGAAGAAAATTGTGAGGAAAAGGGTCAATGAGGACATTCTTTGCTGTTTTGCAATTTTCCAATGAGCTG
GTCTTGATATTATGTTTGCGTAAATAGCTTGGTCTGATCTTGGACACTAAATTCCAATCCAGCAGGTTCTATCTGGAAG
GAGACTATATGATGGTGGAGACACAAGTCTGAAGGTGAAATATTGCACGATGTAGAAATAGATCAACCATGCACATTTA
TAGAACATCTACTACCAGGTGCTAGGTTCTGTGCTGAGCAATAAACATAATTCCTCTGTAATTTTTGTTGTTTGTTTT
GTTTTTGAGATGGAGTCTCACTTTGTTGCCCAGGCTGGAGTGCAGTGGCGCGAGCTTGGCTCACTGCAACCTCCGCCTC
TCAGGCTCAAGCGATTCTCATGTCTCAGCCTCCTGAGCAGCTGGGACTATAGGCGCACGCCACCACACCTGGCTAATTT
TTTGTATTTTAGTGGAGACGGGGTTTCACCGTGTTGCACAGGGTGGGCTTGAACTACTGAGCTCAGGTGACCCGCCTGC
CTCAGCTTCCCAAAGTGCTGAGATTACAGGCGTGCGCCACCACACCCAGACTCCTCAGTAATTTATAACCTAGTTGAAA
GATTTGGACATATGTATCACAAGATACCTATGAACAAAGGCAAGGGCATATCTTATTTATAAGATGTTTAGATAGATTT
CAAAGGAAGTTTTTCAGCCAAAAATTCCATCATGTTTCCATTTTTGAAACTAAATACCAACATATCTCAAATTCAGATC
TCAATTACTTCTACTGGCAAAATGTAAAGACCATTCCCTCATTCATTTGTTATTTCTCCAAGTATCCTGAGTACTGGAT
ATCTGAAAGGCTCTCTGCTAGGTACTTTGTAGGGTAGGAAAACCTCAAAGGATGTGTGGAAATGAAAAAAGTTTCCAAA
TACTTCTTCAAATTTTGTGAAACTTATCAACTGAAACAAGGTTGATTTGGGTCAAACAAGGTTTGTGAAGTAAAAGCAA
AGCAATTTTAAATAGGCTAAAACCCCATGGGTTGCAATGAAAGCAATGTTAAGATGACTCTTAAGTAACTTAGAACTGT
TGAGGACTTTGGTAATTAAAATCTCTTCCTCATAGCTCCCCCAGCAATCAGGAAACAAGGATAGTTTGGATTAAGGTCT
CATAAATAAACATACAGCTTGTCAGTCCTTGGAGATGGAGAAGTCATTCTTGAGTGTGCCACATGGAGGGCTCAGAGAT
AAGTGATGACCCTCTTGTCACTCTGGCAGAAAATATATTAACTTCTTTAAACCAAGAATTATAGTGATTTCAGTGGTAC
AATTACAAGGAGTGACTTCTGGGACTTGCATAAATCAAGCTTATTTAAATAGTGTTTCAGAAAAGAACATATGCTACTA
TTAAAGAGTTGGAAAAAAACAACTGCAATCCCATAAGATAAAGTTAGGTGAGAATATTCATATTTGTTTCAGATACAAG
TCCATTATTTATGTCAAATAATTAAATACCTCTTTAGATATCCATTCCAGGGGAGGCTCTTGAGCCTTTCACCTCTCTC
ATGTCCAAACTTACTAGTTATTTCAATACTGAAATAATTCCAGTTGTTCATGAATTATTTGATGAGATTTAGAGTGATC
TATATTAGTTAATTCATTTATCAGATTTGTTGAATACCTGTTATGTGCACTGGATGGCAATTGGTGCCATGTTGTATAT
ACATTGGACAAAGGCAAAATTCTGTCTTGGGATGCTTAAGTATAGTGAAGAAGAATGACAAGTGCAAAAATATCTAATT
CCAAAGCTGAGAGAGGAGAGAAAGATTATTTAAGTTGGTATGGTCAGATAAGTAAAACAGTATTTTAACTAAGCTTTGA
GAAATAGATAGAATTCTACTTGGAACATTGAGGAGGACTCCATGGAAAAGTAATAAAATGAATGAAGACCAGAGCCAGG
CTGGAAAAAAAATCTTTTTAATGGAATAGCAGTGAGCAATGCAGAAAAGCTAGAGATCATCTTACTGCTGTGCACTCTAA
ATATTCCCCATGGCTGCTACCTTGTCCAATTCCCTCACAGTCCTGCCTGCTACAGAAAGCGTAGCAGTTTTCTCTTTAT
CGATGATGAGCAATAGAAAGAAATGCTTCACTCTGCCTAGGCAACAGGCACATTTAATATGGGATTTCTGTTGACAGTG
CCTTAAGCCATGGAGCTAGCTAATCAGCACCTTACTCATTGTATGACAGGAAAGAGAAGAGATCTGGGAATGAGCAGAT
CATTCAGCATTCCTGCAAACATGGAGAAACAGAGCCAGACAGCTAGCTCTCCCCTCCCAGTTTCTATGAGTTCCAATGT
GACCAAAAGCCTTATCTTGGCCTTTGCACCTGGAGGTCACCGCTGCCGCTGGGAGGATGAGTGGAGGAACTTGGGATGT
ACATGATAGGGTCAGCCAGCCAGCAAATGAGTGTTTGCAGAGTGACTAGGGAGGAGCAAAGGAGAGCTTTCACTGCTGT
AATAGTCCAGAAGTTGCTGCTGAATCAAGCGAAAAGAATAAGCAAAGTGTTTCAGAAGTCAGCCTGCTTCACATCTTGT
TGTTCATTTATTCCCTCTATTCTGACCACTGAGCCCACCAAGCTCTCCTTCTTGATATAACTTTTATCATATTTAATAT
TAGGGCAAGACTAGTTTGGGATCTTATGTGTCTAATTTATATAAATGTAGCAAATAGTCTTTTTGATGGTAAGATAAAC
TAGTGAATTATCTCTAACATAATCAATAAATTTTCTTATTGCTGGGTGTTTCTCAACCATGGTTTCGCATTAAAATCAT
CTAGCGAGCTTAACCGCCCCCTCCCCAAAACACACACACATACACACACACACACACACACACACACACACACACACAC
ACACACACAATTCCCAAGCTGCTCCTAGGTCATTTATACCAGAACTCAGGTTAGGACTCAGGCAATGGCGTTCTTTAAA
GCTCTGCAGGTGATTCTAATGTGCCGCTGGAGTTGACAGCCACTGTTCCAAATGTCTTGAAGATGAATAATAAAATCCA
GATTGGTAGTGAGTAAAAATATATGTGTGTCTAATGTGTAAGTCTCAAATTATTAACATTTCTCAACAATGTATTTCCA
TTTTAAAAATCATATTTAAGGAATGACCTTCAAAATTTTGTTATAGAATATTATTTTAGTGATGTTTCTCTGTTAGTA
ATGTGAAGCATGTTGCACATAAACTGTCTGGAGAATGTGGCATTATTTGCAAACATGTCAGAGAATGCAGCAGATTTTA
CAAAGGTTTATGAAAACAATATGCTTCATTATTTGTTCACATAAAAAGTAACAAAATTAGCTTCCTGTTAAACAGAAAG
CCCATAGAGTAGAAGAGAAAAGGGTCTGGTTCCTTATTCACTCCCAGCTACCGTGAGGGTGTCTTATTGCCCAAATCCA
GGACATCTTTGACTTTTTCTTCTCTTGACTGTCTAATCTAATGTCATGTAACTATAATAATTCAAAATAAAAGTAGTTA
AAATTTAAAAATATATTTAAAGACTATCAAGATCTGTTGATTCTACCTCTGCAAATTTTCTTTCACACCTTCATCATTT
GTCCATTTTTGTGGCCACAATCCTAAATCAAACTCCCTGTTACCTCCTGCCTTGGTAATTGTCATATGCTCCCCATGCA
AATTTTTTCTCAGACATTGCCTCTGGCCAAAGATCTGATGGCATCATGTTTTTCACTCATCTTCAGTGGTTCTCTGCTA
CCCACAGTAATTTTACAAAACATTAGCTGGGCATTCAGGTTCTCCGTCATCTGGCCCCAACCTTATTCCCAAGACTTCT
CCCCTTTGTGTATAATACTATGAAATGATCTAACTGTTTGGTAGTCCTGGACATGGCTATGTTCTTTCTGCTGTCAGAA
CCCTGGCTCATGCTGGTGTTTCTGCCAATGCCTAAATCCCACCCAGTATAGAGGGCTCAGATTTCATCTGCTTCACAAA
GCCCTGAACTACAGAGTTAAAAGTAATGTTTTTTCTACTGTAATCACATCGCAGCACATTATCTGAACCATTTTAAAAA
TATTTCCCCAGAGTCACTTAATCTTTCTGAGCCTCTGTTCTTTTATTCATAAAATGAGAACAATAATACCTACCTAAAA
GACTGCTTGTGAAGAGTATGATTATGTGTGTACAAAGCATAGTGCGCAGTAGACAATTTTCAAATCTTTCTTTCTTCTC
TCTCCTTTCCTTCCTTCTTTCCTTCCTTCTTCCCTCCCTCCCTCCCTCTCTCCCTCCCATCCGTCCTTCCTTCCATCCT

Fig. 6.105

TCCTTCTATGTATTGTCCATTATAACTTTGTAATTTCCTTTTGGGCAGGATCCTGTGATTGGTAAATTTTTGTTTTCCA
TGCAGTTTCTAGGCTAATGCTTTGCATGTGTAGGTACTCAATGTAAAGGTACATGTTTTAAC GAAAGGACCCAAAATT
CATGACTTGCTGTACAAATGATGATCAGGGTTTAGGAGAGGAGATATAGACCAGAAATCTAGTTGTTGTTTTGAGTTAT
TATTATTACTTAAATTATCCTATATTTTAGGTTAAAAACTCATTGAGCAAATCATTATCTTGATGAGAAATCAAGAGT
CAGGTTAAGTAAATTTATTTTGGTTAGATGTCTTCTAAGCATCAGTTAAGGATTCAAACCAAGGCCTCTCCCATGTGAA
AACATATATTGTTTCAGCTTATCAGGATTGGTTAGATTATCTCCAAGATTATGTCTATTTAAATGGCAGTTATTGCAGA
TAATATCAATGTCCTAGGTCCACAGGAAGGCAAGAAGTAGACTTAGCAGTAAGTTGCTGAGCAGGAATTCTGAAAAGGG
TGACCAGGATCAGGTGAAGCACGTCCAGAGAGTAAAGGGGGTAAGCAAGCTCTTGTTATTAGCCCATATGTACTTACCC
TGGGCTCACCGAAGAGTCCTAAAGCAAAGCTTGCTGTGGCTGCAACCTAAGGATTGGAACAAGTCTATAATCCTTCAAG
AGCCAAGTGTGGATTTCTCCCTTCTACTCTCTGCCTCAGTATATTTTCCATGTTTTCTTACTTGTTCTGTTGCTGGAAG
TTTCCTTCTTTCCAAGAGATACTCAGTTTTAAAGAAGCCACAGGTGTCTTTGCCAAAGCTTGCTCTCTGCATCCTGTTA
CACTCTTAGAGAATCCCCTGATGACGTCATTCAAGACAGCCTACTTTCGTAATTGCTGTGGAAGGGGCAGAAGGTCCTG
CCACTACATTGCTTTCTGTCACCCACCCCCAAGATGGAAGAACAGGTTGTCTCTGAGGAATTTTGATTTGGGGCACATT
GATTCCAGTCTCTCTTTACTGGAGCTTGAAATAGGGGGGCCAATTTTCCTATAAAAAAGAGTATGAAACTGATATCCAA
AGAGACACACGATGAGAATCTATGAACTCCACGAAAAAAGAGCTGATAATTATAATTGTCTTCATTCTTGGTAGCTTTC
TAGATGGGTTCTAATCCCGCAAGGGGCTTAGTTGCCTTCCTAGCTTTGGCGTCTATAAAATAGTCCTATAACCTTTTAA
TAAAGGTTTAATAAAGGCCTAAGCCCACATGAGTGAGTTTTATACATTCAAACAATCTCCTAAGTGTGAGAGTTAATTA
ATTTTTAAACTATTCTCGAAATTCAGCCTTAATTTGCTTTTGCTTAAGCTGGGTCACTAATCTGTGCTGAGGACCCATT
ATCCATTCTTTGTTAGGTTCTACAGTTTACCTCTAGGGTACATTTCATAGTCCTTAATGTCTCTTCTGTATAACTGATT
ATTTATGGAATTTCATGATGCGTTAAATACTTTGGCTGAGTAGCAAACACATTTCATCTAATCTTTCAATTCCACAACA
GTACTACTGGGCAACATTTTTATTCTTGGTGGATACAATTTCTTTCTTTTTTTTTTTTTCTCCTTTTATTCCTTCCTCC
TTTTCTCTCTCTTTCTTTCTTTTAAATGTTTGTGATATCAGGATATAAAGAGCCAGGTAGAAGAGCACAGAATTAGAAA
CCAGAAAACTGAGTCCTAGTCATCTCATTTCTCCTGGCTTCACTTTTACCCTTAAGTGAGGAGACTATACCCGAGTTCC
ACCTAGCTTGCAAATTCTATAATTCAATTATTCCATCACCATTCTGAAATATACCATGTAATTATAGAAATTACTAGAA
AATTTTTTGAAATACACATTTCCCAAATTTATTTGACCATGGAATACTTTTTAAATAATTATATATTGGTAGAACATAT
ACGATAGTTCATGGATATAATATGCACTTTGATTAAAGAATACAAAAAAATGGTCTGCAACAATTAATTGCTTCAAGAA
ATGATTAAAAAAATTCATTCATATTCTAACTTAATTACAGGACCAAAACAATAATACAAATTAAATAGATTAAGTCATTT
TATTTTTATTAAGTACATAAAAAAGACAAAAAATGGATGAAATGATGACAAGTTGCATAACATGGAGCAGTGATGATTAA
GAGGCAGTGTATACCAGTAAAATTAGTTGGTAAATACTACTAATAGATACTTAGCATTGACATTAAAATTAATATTTAT
ATGAAGCTTTGACATTTAATTCTACTTCATGCATTCATGATACACCCAATCACTTGTTTTGCAATTATTTCAATGTGGA
TTCTTGCATAATAACAATTATAGATGTGTGTTTAAATATATTAAATATATTTTATAAGAAACAATGTTGTTGGTAATTT
TTCTTCTTAGACTACTCAGTATCTTATAGTTTGAGAAAAACAGACCTATCTGAACCTAGATACTATATATGTTTCCAAC
GAGTAGCCTATTTTTCCCTTCCTTTTCCTCTATTGCTCACGTGCTTACATGCATTATTATTGGGTTATATATTGAGTTA
TTCTCTCGTTGGCTTTTGTATTCTGTGGCATTACATATCTTTGATAGCAGTAAGTTTGACACTCAAATTTTGTAGAAGT
CAATGGCAGTGGTCCTTTTATAGGTTTAAACTTACCTGACTGCATTATATCCCTTGAGAATAGTTTTAAGGGATTTTCA
TTGAAACTACTGTATATGATTAACATATAATGCCTCCTATTATGAACTTGGAATATGCACATTAAAAGAGTTATAAGTT
ACAGTTAATCATTTGTTCATTGCTTTCTTTATAGATCTTGAGAAAAACCTGATGAGTGTAGCATTGCCATTTTGTAACT
AATCCTTCATGTAATGAACCTAAGCTTCCATTATTGTGAATGAATTAGTCTATTTAGGAACCGCTTTGGCTTAGCGGTG
AACTGTATTTCCTACTTAAGGAGCCAAACATTAGGAAGCAACTGTAGCAGTGTACAGCAGCAACTTCATCATTTTGGAA
TTTTAAAATTCTACCTTCAGGGATCTTAGAACCATCCTAGCTTCCGAGATCTCACTGTGAGTACTGGAGTGAGCAGAGT
TGTACCAGGATGGAGAGATTGCTAATTTCCAAAAATGGGATTACTGAGTTAAAATATAATCCTGCTTTCAGCTAAAAAC
AAAAAAACCCCAAAAAACCAAACAGCCCTTTATGACACAATTTCACTATCCTGAACGCAATTTTATTTCATTGATTATA
AACAATGTGAATGTAGATACCAATATTGCAATTATGACTAATAATTGGAGGCAATTATTTATAGTAGTTATATATCAGT
ATATATATTTACCATTTATACTGATATTAATGACTGTGGCTTTTTAATAGTGGCCACAGAAGTCACATAGCATGGTTTA
GTGAAGTTTGGTTCACATTTGTAGGCACTTCAGAAATATCATCTTTGAGAACACACACACACTTAAGTTCAGTGAGAAC
GTATATAATTCAAAGAATAACATAAGCAATGATTTAAACTTCTATGTATGTTTCAGTCTGCCTCAGTGTTAGCAGCAGG
AAAATTATTCTTTACAATAATGAAAGACATTTCCAGATTCAAAAAAAAGGGAAAAATAAAAACCATGGAAATAATATAT
TTGGAATTACAGGGCTACTAGCAATCTAAGTGTTGTGGAAAAATCTTGGTAAATAGTTCAGTGAAATTATATAGATAGAA
GATTGATTGAATAAACCTACTCCAAAGCATTGATATGCCACAGCATTCTTCCTTTGGCTGTGTTCTGCCCAATATTTTA
ACAAGGGGTTGCATCAAAACAGAGTGATGCTGATCAACTCCTGAAAAATATTTAAAGTTAAAAGAAATGCTAAGCAAAA
AGAACAAAGCTAGAGGCATCATGCTACCCAACTTCAAACTACATGCTACAGGAATACAGTAACCAAAACAGCATGTTAC
TGGTACAAGAACAAACACATAGACCAGAGAAAAAGAATAGAGAACCCAGAAACAAGACTGCATACCCACAACCATCTGT
TCTTTGACAAACCTGATAAAAACAAGCAATGGGGAAATCATTCCCTATTCAATAAATGGTGCTGGGACAACGGGCTAGC
CATATGCAGAAAACTGAAACTGGACCCCTTCCTTACACCATATACAAAAATAAACTCAAGGTAGATTAAAGAATTCAAT
ATAAAAACCAAAACTCTAAAAATCCTGGAAGAAAATCTGGGCAATACCATTCAGGACATAGGCACAGGCAAAGATTTCA
TGACAAAAATGACAAAAGCAATTGCAAAAAAAAGCAAAAATTGACAAATGGGATCTAATTAAACTAAAGAGCTTCTGCA
CAGGAAAAGAAAATATTAACAGAGTAAACAGCCTACAGAATGGCAGAAAATTGTTGCAATCTATCCAGCTGACAAAGGT
CTAATATACAGCATTTATAAGGAACTTAAATAAATTTACAAGAAAAATACAACCCCATTAAAAAGTGGGCAAAATACAT
GAACAGACACTTCTCAAAAGAAGACATTCATGTGGCCAACAAACATATGAAAAAAAAAATCACTGATCTTTAGAGAAAC
CCAAATCAAAACCACAATGAGATACCATCTCACACCAGTCAGAATGGCTGTGATTAAGAAGTCAAAAAACAACAGATGC

Fig. 6.104

TGCTTATGGAGAAAAACGAATGCTTTTACTCTGTTGGTGAAAGTGTAAATTAGTTCAACTATTGTGGAAGACAGTGTGG
CAATTCCTTAAAGACCTAGAGGCAGAAATATCATTTAACCCAGAAGTCCCATTACTGGGTATATACCCAAAGGAATATA
AATCATTCTGTCATAAAGACACATGCACGTGTATGTTCATTGCAGCACTGTTCACAATAGCAAAGACATCTAAATGCCT
ATCAATGACAGATTTGGTAAAGAAAATGTGGTACATATACACCATGGAATTATGCAGCCATAAATAAAGAATGAGATCC
TGTCTTTTGTGGGAACATAGATAGGGCTGGAGGCCACTATCCTTAGCAAATTAATGTAGGAACAGAAAACCAAATACCA
CATGTTCTCACTTATAAGTGATGATCAGAACGCATGGACACATTGGAGTGGGGAAACAATACACACTGGGGCCTTTCA
GAGGGTAGGAGGGTGAGAGGAGGGAGAGGATCAAGAGAATAGCCAATGGATGCTGGGCTTAATACCTGGGTAATGGGAT
GATCTATGCAGCAAACCACCATGGCACAATTTACCTATGTAACAAACCTGCACATCCCGCACATGTACCCATGAACTTA
AAGTTGTAAAGTAAGAAGAAAAGAACTTGTCTAGATGCAAGTTAATCTGAAAAAAATTTATATTAACTGAGCACACTCC
CAGCCCCAATAACATAGGTGTTTTTGTTTAGCAAGGAATAAGAAAAGAATGGATATTGGGTGGATACCTAATAGTAGTC
TTTGTCAGACTGAATCGAGCAGATATAATAAAAAAGGAATGTGTGACAATGCTATGGTTTAAAAATAACATGATACCCA
GCACTTTGGTAGGCCAAGGAGGGTGGATCACTTGAGGTCAGGAGTTCGAGACTAGCCTGGCCAATATAGTGGAACCTTG
ACTCCACTAAAAATACAAAAATTAGCTGGGCATGGTGGCAGACACCTGTAATCCCAGCTACTTGGGAGGCTGAGGCAGA
AATTACTTGTACCTGGAAGGAAGAGGTTGCAGTGAGCTGAGATCATGCCAGTGCACTCCAGCCTGGACAACAGAGCAAG
ACTTCATCTCAAAAATTAAAAAAAAAAAAAGATAGTCCAGAAATAACAAGACACAATCTAACAGGAAAGAAAGGTTAATT
TCTTATTTAGGCTTTAAGAAAAAAATTTTAAAAAGCAGTAGCGCAAGTACAGAAAGACCTCATTCTCATAAAAATGGTA
GTTAATTGCAAGTACTGTATCAAATATGTGATAAGTCTATCTAAAAATCTTCTAAATTGAATCTTTCTTGAGGGAAAGA
AAATCAACATTAATTGAAATATTATTGCTCAGACAAGAAAGGTAGCAGTAGTTCATTGTGCTCAAACAATTGTCAGACC
ACCTATGGAATATCCTGTACAATGAAAAATTACAAGTTTCCCAGAGTGTGTTCTTCAGAGCAGTAGCTCTTAGAACATT
AATGATTATTATGAGAAGGGAAGGTCTATTGTCAAAGAAGCTTGGAAAGGATGAGTTGTTAAGCAAAAGGTGTCTTTTG
AGCAGTACTTTTCATGGTCTTTAATATACCAATATGCATTGCAGCTGTCCAAGACAGGAGGCCATTAAGGAAGCCTGAA
GAGAAATGTCCCACCTTAGTGTCCTGAAAGGATATGCACTCCTCTATAGCTATTTACTTTTACTTTCATCCCCTGACC
TTTCTTCCAGCACTATGGTCCTCTCTTCATCACTTCTCTCTATTTTGATTATTTTCTTCTCCAGTGGCTCCTAACTTCT
TTCTACAAATGCATTTGCTCTGTCTGATAAAAATCATTTTAACTTTGCTTCTCCATCCAGCTACCTTCTTTTTTTACCC
TTCCTGTTACTGCTTCTGGTATTCGATGGTTTTTCCTTTTCCCTTCCCCCATTTTTGAACGATAGACTACTTTTTTTCA
TAGCTCATCTTGCACGTTAGTCTTCCATGAGATATGCCTGTAGGCATGCACAACTAGAGATGTTAAGTAGAGGCAGAAA
GAAAAGAAAGACATCTGGCAATTAGATCTGACTTTATCCATTCTGGCTGTTATAACAAAATAGCATACACTCAGTAGCT
TACGAACAATAGAAATTTATCTCCCAAAGTTATGGAGGCTGGGAAGTCCAAGATCAAGGTGCCAGAAGATTTGATGTCT
GGTGAGGGTGTGCTTTCTGGTTCATAGTTGGCACCTTATAGTTGTGTCTACATGGTTAAAGGGGCGAAGGGTCTCTCTT
GGACCTCTTTTATAGGGCCACTAATGACATCTCAAGTGCCCCATCTCAAAATATTATCACATTAGTGATTAGGTCTTAG
AATATACATTTTGAAGGGACACAAACATTTAGAGCATTCCAAGGTCTTATTTGTTTTTCAGTGGTTAAGAGTTTCGTCA
GGGAGGAGGAGTAGAATTATGTGAGCTTACTTCAGAGCAGAGTTTACTAATCTTCTATGTGTGTGTATGGAGTGGGTGT
AAATCCTGAATCCTTTCAGTAAGAAGGGTACACCTATGAATGCCTTCTCAGTACACTTGGCCCTCTGTACCCATGGGTT
CTGCATCCTGGGATTTAACTAACCATGGATCAAAAACTTAAGAGAAAAGTTTGCACTGGACATTTACGGATGTTTTTTT
CTTGTCATTATTTCCTAAGCAATACATTATAACAATTACTTACATAACATTTACGTTATACTAGGCATTACAACAAATC
TAGAGATGATTTAAAATATATGAGAGGATGTGAATGGGTTATAGGCAAACACTATGCCATTTCCTATCAGGGGCTTGAG
CATCCATGGATTTTGGCGTCTGCCAGAGGTCCTGGAAGTAATCTCCCACGAATACTGTGGGACAACTGTATAATAGTTT
TTTGTTGTTTTTAGTTTGTTTTTGGAGACAGGGTCTGCTATATCACCCAGGCTGGACTGTAGTGGTGTGATTGTAGCTC
AGTGCAGCCTTAAACTCGCAGTCTCAAGCGATCCTCCTGTCTCAGCCTCCCTAGTAGTTAGGACCACATGTGTGGGCCA
CCACCTGGATCATTTAAAATTTTGTTTTTGTGGAGATGGGGTCTCTACAAAAGAGATGTCACTTAGGTAGGTCTCAAAC
TCCTGGCCTCAAGTGATCCTCCTGCCTTGGCCTCCTAAAGTGCTGGGATTACAGGCAGGAGGTACCACACTCAGCCTGT
ATAATGTTTATAAGCACAAAATAAAATTGTAGAATTAAAATGAAACCAGTTGTATTAAAACAAATTATACAAATATTA
AAATAAAAATTTGGTATAGTTATATATGTGCATCTTTATTAATGTATTAAATCATAAGATCCAGCAGATCACATATCTA
ACATACTTAATTTTGAAGTGCTTGCAAGAAGTCTAATGAGATAAGAAGGTATCTATGATTTTTACTGGCAACAAAGTCA
CAAACTACAGTGGTTTGGTAACTATATTCATAATTGAAGAAAATGGTATTTTTCAGTTACAAGTTAGTAAAAATACAGA
TGTAAACTTGTCATACAAGTTTACCAATCTCCTGAATTCTTTGTGGACTCCAGGTTAAAAACTACTAAATGGTAGAGTA
TATAGTTACAAGGAGTCAGATTTAAGCTCATTTTAAGTATATGTATTATGTGTATGTAAAGCCTTAATAATTAAGATGT
CCTAGAATGAAAGGATTTTCTCACAAAGTAGTGATCTACCTGTTAATGGAAACGTCCAGTTAGCATCTAGAAAAATATT
GAGGATGTTGTAGTATAACACTAATTAATATTAGCTAGCATCTACTGAGTGCTTGCTGTGTTTTATGCACTGGGTTAGG
AGCAATTTTTGCATTGTGTCTTTTTTTTTCATGATAGTTACGTCAGGTTATCTCTGTGTCATAGATAATACAATTTAGGT
TTTGATATTTGTTAGAAGTTGACTATAGCCTGCAATCCCAGCTACTCAGGAGGCTGAGGCAGGAGAATCACTTGAACCC
AGGAGGCAGAGTTTGGAATGAGCCAAGATCACACCACTGCACTCCAGTCTGGACAACAGAACGAGACCCCGTCTAAAAA
AAATTAATAATAAATAAATAAATAAGTTGACGGCAATAAGTGGCAGAGTATGAACTCTAACCCATATCTAGGTGTCTCC
AAAGCCTATAATTGGAGAATATTTTGATAATAATGTAGGAGAGAGATTGGTGAGAGAATTAGAGATCACCTTGTTCATC
CTCTTTATTTGATAGATATGAGGACACTGAGAACTCAAAGAAGTTAGGTGACTTACTCCAGGTTACACAGTTTATAGCA
GAGCCAGAAATTGGACTTTGATGCCTTTTTATGTGGAAACATGAGCTTTTATTATTTAGCTCTTCATCTGGTGGAAGTG
GAACACAACCTGAAGAGAGAGGCAATGGACTACACTATGGTTTGGAACAGAGTGTATAGTAATTTCCTATTTCATTTAG
ACAACAGGGATATGCCTGAAAGTGCCTTTACCCATGTCATGCATTTATTCACAATGAACACAAAATTTACTTGAGTAAT
TTTTTTTTTCTCGAGGTATAGTCTCGCTCTATTGCCCAGGCTGGAGTGCAGTGGTGCGATCTCGGCTCACTGCAACCTC
CGCCTCCTGGGTTCAAGCGATTCTCCTGCCTCAGCCTCCCTACTTGAGTAATATTTTAAATGTAACCATAGTGAACTGT

Fig. 6.105

CCAATACTAAAATTTGTGCCTTTGATAATATTTATATTATGAATAAAAATATGCTCTTTTAACCATGTCCTCATCTATT
TTACCAGAAAGTATCTTGTGTATTGTCAATACAAAGTATCTAATGCATGAATGACTGAGTATGATTGTCTGGTTTTCTT
TAATCACTACTTACACCAAATAATTGGGTATTTACAATATACTGATTCTATTATTTTTACTGAAATATAATTATAGTT
AAATTTACCATTCGTTAACAATGAGGGAAGAAGTTGTCTAGATTAGTTCAAAAACCAACATGTAAATTCTTTCTGGAAT
ACGGTAATACATAAATGAATATGCAATAAAAGTGTGAAAACAATTTTTAAATAAAAACAGTTAAATTAATTTCTAAAAT
ATACAGGGATTACACTAACAAATTTTCCTGAGTATGAAATTTAGGAAGCATGCTTTTCTAAAATGAATGCTTTTTAACA
TTATTTATAAACAAATGTTGTTTCTAATATTTTATATAGCCTACATGCAATAGGTGCTCAATAAATACTCATTAACTTA
GTTCAAGATGTTGACAGAACACATGGTTTTTGTTTTCCTTTACTTTTCCTAATACCCATTAAAATAGTAGAAAAACTAA
ATCTGTATAATGCACAACAATAAAGAGAATGGGGAAAAGGCCATCAGTGGTAAGAGATTTTATCGAATTTCTGGAAGAT
GAAATATGAGTGAGTGGTGTTGATTACTGAAGCAAAACAAAGTCAATTATTGCAGAGAATATTTGTAGAGGGAGCTACA
CCCAAGAAGAAGCCCTAATAACATGGCAGAAGCTAACAAGGCTCCAGTTTCAGATAAGCCAATGCTGATGGACATTGAA
ATGAGAAACATAGATGTAATCAGCATTTTGATCAAGAGCATGTGCACTAGTTTTTGCTGCCCAATGAGCCACTTTAAAT
CATAATGGCTTAAAACAACCATTTATTTAGTTTACTATTCTGCCTAGTCAGCCATTTTGGCTGGGCTTATATGGGCATA
TTCCTGTGTCTTTGCTCAACCAATCAGTTGATCAGCTCTGCTTCTGCAGGTTGGTTGGGTGTCAGTTAGCAAGATAGGG
GCCACTAGGCCTTGCAAATCTCATCAGACTAGTTTGGGATTGTCACTTAGTAGAGGAGCAGGATTATAAGAGAAATAAT
ATAAACGCAAGATCTCTTAAAGTCTAGGTTTAGAATTGGCACACATTAACTTCATTCTTGCATTGCTTGACTAGGTTAT
AAGACCAGTCCAGATTCAAAGGATATCGCAACAGACTGTTATTTGTTGATGAGAAGAACTACAAAGTCACATTGCAAAA
GGGTGGATACAGGGAAGGTATAAATCTTGAGCATTTGTGGGTCTAACACAATGTAGAGGGCCCAGCTTTATCCTTCTCT
ACTTACCACATCTGTTCTCAGCCCCATACTAGAATACGTGGCATGAAGCCAGGTATTTACCATCACTTCAACAGAAGCG
AAAACAAAGCAAAACAAAGTTTATTTAATGAAAACATTAAATGAAAGAAAATAGATAAAATATATTTAGGAAAATCTCT
TGGAAAGAGTATATTAATAGATTAGAGAGTGTGAATGAGGTTTTGGAAAACCTTGAGGGTGTAAATTGATGCTAGAAAC
ATCCTTCTCTGAGTGGCCTACTAATTCTGACATAGGAATCAGAGAAAAGGAAATGTAATCTTAACTATTTCACTTTGCA
GAAAATAATCTTTACATAGTCATAAAAATGAAAACCCTGTTTATAGTTTTCAACTTTAGAATTGCTCCATAGACAAGTC
ATATAAGTCTTAACTGTGTATCAGTGTAAATGTTTTCAAACTTAACAATATTAAAACACCAACCTGGGACCCATAGGCA
CAGACATATCTTTTACATCTTTGAAATTTAAAGCTCAATGTGATGGTCTGTGTCTTGACTCTATTTAGCCAAACCACTG
TGTCATCTTTTACTAATACTCTTTCCCCATGATAGTAGCCCCAAGACAAGTAAGCTGGTCTAGAGGCTCAGTGGATGTT
CAGTGACAGTGCAAGTCATCACCCTTTACTTTTTGCAGATACCACAAAGCTGTTTTTAAGAGTCTCTTGCCATCCTGCC
TATGACTTTGTGCAGTGGAATCAGTTGAGTTCATGGGAAAGCAAATAAAAGGATGGTCTCTGTTTATAGACATAGCCCT
GTCTTAGAAATCTAATCTCTCTTATCACTCTCATCTACAAAGACTGTCAAGGAAATGTGTCCTCTCCTGCCCATGGAGA
CAGATTGGGCATCTCACATGAAAAAATATGTCCTTTGAACTTGCCTGAGAAATTCCAGTAACTTTTTTCTCACCAGGAT
ACTTTTCTACTGTAAGCTTGCCAATATTTGGTAATCTCTAGAATAGGAACCCATCTCAATCAGCAGTGCACACCATCCT
GTTTTGTGCAGTCTAAGTTTAGAGCTGTCTAAGTCCATTTGAGCTGCTACAACAAAATGCCATAGACTAGGTAGTTATA
AGTATCAGAAATTTATTTCTCACAGTTCTGGAAGCTGGGAAGGCCAAGGTCAAAGCACCAGCAAATTTGGTGTCTGATG
AGGGCCCACTTTCTGGCTTATAGATGGTGCATTCTACCTGTGTCCTCACATGGTGGAAGGAGACAAGTCAGGTCTCTGG
GGCCTCTTTTATAAGGGCACTAATTTCATTCATGAAGGTTCCTCCTTCATGATATAATCACCCCCCAGGCCCTACCTTC
TAATATCATCACATTGGTGATTAGGTTTCAGCAGATGAGTTTTGGGGGAATACATTCAGGCTGCAGCAAGGTCAAAAAG
AATATTGCATCATTTTGCTTTAGAGACCTTTCTGTTCTAGCTACATTTTGATTATCTATATGACACAATAAAAAAGAAA
GTCAGGAAACCTAAGATCTTATACTTCAATAGAGTTTTTATAGGACAACATTGATTAATGGCTACAGTTAATACAAAAA
CTCTAACAGCAGCAATCAAATATTTCCATTCATCACACTTGAAACTTGGCCTCAGGTCTATGGTATTTTGAAATTTTTT
GTTGTTGTTTTGAGAGTGACATGAGTGCAGGCCCAGCTTCATGGATATACAAACTATACATTCACATGGGTTCCACACC
TAGATGGGCTCTTACATCATGTAGCTGGTCCTACCTGGGAGAGAGCTAAAAATTAAGTTGCAGTCATCAAATTACTGAT
CAGATACTGAAATTAAACCTGAAAGATGTTGAGAACCCAGAGAAATTCTCAATCATGTTAATAATACTTTCATGCATTT
GACATTTCTTTTTTCCTGCCTCTTCTCTCTACCTGTAGAACTTTTCAAGTTCCATTATTATACCATTGTTGGCCCTTTG
TTTCCTCCTCCAAAGACTTAAAGAAGAAGTTATGATTAAGCATATGAAATATGCATACCAGGTTTTCTATAAAGATTCC
TCGGCATCTCTGCCAAGCTGTCATATGAGCACTTGCATGTTGTTATATAAAAACACATATTTTAAATAAATTTTAGTGC
TGTTCTAAGCAAAAAGCACATATTTTAAAAATCTGGAGTTTTCTGTTTCAATTTGAGAGAACTACATTTTGCTTAATTA
CTATTTAAATCACTGTAACACAATATTGATGACAAAATTTGAGTTTGCTTTTTAATAAACTGTCAATCAAAGAAATAAC
ATAGAACTTTGTTTTTCTCCTCTGTTAAGGCATGGCTTAACTGTAATTTACTTGAAAACATTATACTGTTTGACAGGAA
AACAGAACCACCTTGAATTATTCTAACCCATTCAGATTTAAGAAAATGCATCGTAGCAAATTAACTGCTATTTGGTTTT
GATCATTCTGTCTGTATCATAGAAATATGGTTCACTAGTGAATCAATGAGAGATAAAAGGTGATCATGGTCTGTGAGAT
AAATGCTGCCCCTCTGAGTTGCTTCCAACGTAGCCAGCTTCAGTGTATCAGTTAGAGTAGTTAATACTAACTGTTGTAA
CAGATAAATACCCAAATCCCAGTTGCTCAAACAATTGAAGTTTATCTCTCATTCATGCTAAGTCAGTTGATGTTTCTGG
TTCACCAGCTGCCTTCCACCTGGTCACCCAGACACCTGGGTTTCTTCCTATGCACCTGTGGCTTCATTTTCCTCTCAAA
CTTCAGACTTCTCTCCCATCAGTATGTGAATAGGGAACCCAGAGATGTTTCCTATGAGCAGGCCCAGAAGTGGCTTATG
TTGCTTCCATTTACCTTACATCTACATGTCTATACAAAAGAAATGTGGTCTAGCTATGGGCCCAGGGAAGAAGGAATGA
ATTTCATTGACTCTCTGCCACTCGCTGCTTAAGGTCAGATGATACTGCACTCTATCCAAATCAATTTCTTTTTGTAATC
CTTAAAACAAATGTGTTGCATCCATATTATATTTATAACATATGTCTGTTTCTTTTGGACAGTATTATTCTGTAGACTT
CTTGACTGATACATCCCAAGATCATCTTTACTGACTTAGGGTTACAGTTTTGGATAAGTTATCCCAATCTCAGGAGTTT
AATATGCCTTATTGCAGATCTTTTCCAACTTCTAGGTAAGAAGTAAACTCATTCCTAATCTTACTACTTGGACATAGTC
TCTCCCTGCTACCATGTCCTCACAGGACCTCTTCCTTGGTTCAGTATTGCAACTATCTCCCAGTTTTCCTCTTTCATCT

Fig. 6.106

CTGGCTTCTCCTTCTTTATCTCCCTTTTAACTTCTATTTGACCATTAAGTGTTGGCAATGCCTCAGGCGTGGTCCTCCT
TTTTATTGCCTTACACTATACTTCCCATGCCTCTGATTTCAATGATCACTTATATACTAAGGACTCGCCAATTTGTATA
TTCAGCCCATATTTGTCCTCTGGAACTCAGACCTGTATATCCTACCGCTTTTTCAATATCTTCCATTGAGTGTTTCAGA
GGCATTTTAGATCCAAAATATCCAAAACTGAAATTCTGTTTTCCCCTCACAGCCTGCTTACTGCGACCTGATTTTTCTC
TTGTGGCCCTTAAAACTATGAATATCAACAGTCATCCAATTCTTCACCTTCATCTTCCTCCCTCAGTTGCTGTAAGTAC
CCTATCACTAAGGCCTGTCGATTTCACCTTCCAGTTATGCGCTGCATCTATCCCTCTCTCTTCATCTTTCCCGGGGCCG
GCCTGTCTGTGCTGGCATTACCTGTTTCCTGAACCACAGTGATAGCTGCCTTGATCCATTTCCTGGCATCTGCTCTTGC
CCCTCATCCAATCTGTTCTCCATATTGCAGTCAGTCACCTGTTTGAAACAGAAGTCCAACCTTATCACTCACCACACAC
CCTTGCCTTAAAACCAGTTAGCGGTTTCCCATTGTTCTTAAGACTATTAACGTCATTTTTGTGTGATTGTCCAGGGGCT
CAATAATCTGAATCACACCTTGTCTCCAGCCTCCTTTCTGCCTTATCCTGAAGTATCCCCTGCCTGTTTCACTCCCTCA
GCTTCTTGTACACCGACTTTCCACCCAGTGCCTCAGGGCACTTTCTCATGCTGTTCTCTCTGCCAGGAACACATGCTTC
TGCTTTTCTCTCCCCTTTACCTAGTGAATCCCTCCTCATCCTTCCCATCTTTGTAAATTCACTTCAGTTTAGAAGACTT
CTCTGGACTGTTATATTGTCAGAACTATCTTCTATATATGCTGCAGAAGTATACATACGCTGCATACTTCTTTCACTGT
ACTTATCAGATATGAGTAAATGTATAATTTAATGTAAATGTGATTAAATTGTTAGTCTCTTTTATTCACTGAATAATGT
CTATTTGCTCATCACTGCATCAGTAGTACCTAGAACAATGTCTCACACACAATTGAATCCAATAAGCATCTTTGTTCTC
GGCAGCTCCTCGTTTTTTAATCTTAAGCCCTACCCTACCACCTAGCACAGAGAGAGTCTAAATAAGTATTTATTTAGTT
GAAGTGGCTGTTAATGGCTAGTGTTTAAATATATTCATTTGAAAGACATATTTCACAAAATTGCCTTGTTGGCCAGCCC
AGTTTGACTCCCAATAAAAAATACAAGTGTGCCATTTTGTTTCAGACAGACACATAAGGTTGCTATTTAGAAGGAGGGT
TTTTATTGATATATTAAGACTGCCTTGAACATATCAAGTTAATTTATTCCCATTTCATTTTTTAGCCATCTGTTTGTTT
CTAAAGGAACAAAGATTTGGTAGAAGTGGTAATAAATACTCAGATAAAAAATCTATGTAATAAAATTTCTATGTAATCT
TCAGCACTTACTATGAAAAAAAAATAAGTAGATTATGGCAGAATAAAAGTAAAATATTTTCTGCTTGATATTTAGAGTGT
TGTTTTGGCATCTGTGACTTGTGCTAATGACCTCGGGTTTAAGTTTGGTTTTTATTGTCTGAAGATAGCTGGATTTGGG
AGAGTAAGTCAACAACCTTTTTTTTTTTTTTTAGCAAAACTCTAAATGTCTGGATGATCTGATAGATGCAATTCACTATT
CGAGTCAAATGTTGAATATGTATTACAATTTAGGCTGTTCTTGAAGCTTTATTAAATTGAGCACCAAATCTTCTGAAGC
TAATGGAGGTAAAATCATAGTCAAACGCCCTTTTAACTCAAAAGAACCATGCCCCCAACTATTTCTCTTTCTCAAACTA
TTGCTTCTTTCAGGCTAGGATATTTGGGATATTAAAGGGCTCTTTTAACTCAAAATAGCAAAACCATAGCCCTCATCTT
CTTATTTAGGAAGACGGTCTTTAACATTTAATTCTGAGCACTTACCTTTTCCGTAAATGAAATTCTGTTTCTCATTTGG
ATATTGGCAGAGAGCCAAGATAAGGTGAGCATTGAGCAGGATAAACTAGATGATTCCTTAATTCAGCAAATATATTTTG
ATTCCAATTGTGTACCAGAAATTCTTCTAGGTACTGGGAATTTATCAGTGAACAAATAACATTTCTATCCTCACAGAGC
TTACATTCTGAAAGATAGGTAATAAATAATTATCTATCTATCTAATTGAATCACTCTTCTCTCTCTCTCTCTCTGTCTT
TCTCTCTTTGTCTCCCCGCTTGGGTCTTTCAAAGACATTTCTGCAGGAGTACAGCTATGAGCTGTTTAGCAGTCAGTAC
AACCTCTGGAAGATGGGTGTACCTGCCCAATAAAGGGGATCTGAGAAGACCGTCAGTAGCATCTACTATAGAAGATAAA
TGCAGTATTCCAGGCAGGAGATTATGATGGCTTGGACTAGGGTGGTAGCTGTGTTTACGGTGAGAAAGATAAGATCTGG
ATATATTTCTAAGGTAGATTTCACAAGTTTGCTGCTTGATTGAGATCAGTTGCAAGGAAAAGGAAAGTCAAAAATGACT
ATATAAATTCTGGTCTGAGAAACTGTGCAAATAGAGATACTGTTTACTGAAATGGAAAGGGAGAGATCAAGATTTTCAT
GTTAAATTTGGTACATTCATTCAGATATATCAGTGGAAAGATAGGCAGTTGGTTATGGTAGTCTTGAGTTCAGGTTGGT
TTTACAAATCTAATTTGGGTATTGATGATTTTAAAACTGAGGAGTTACCATAGATAAATAGGAAAAGCCACTCTAATGT
TTTGAAGTTGGAAATTCAAAAGGAAATGGAGCTTTTGAGAAGGAGCAGCTGGTGAGGCAGAAATACAACCTAGAGTGAG
GAAAGGCTTGGAAGTCAATGAAGATAGTGTTTTACAAAGGAATGCATGATTAATTGTGAATGCTGCTGATTACTTAAGT
GAGAACTGAGAATTGACAAATGAATTTAGCACTGAGAAGACCTTGGATGATCTTGAGAAGAGCTGTTTCAGTGGAGTAC
TATAAACAAAAACATAGGAGTACATTCAAGAAGAAATGGTGGGAGGGCAAGAACTGAATATCATGAGTTTGGAAAACTC
TTTTGAGGAGTTTTACTTTAAAGAATTTAGGCAGAGAAATAAGATATATAGTAGTTAAGACTTAAATTGGACATATTAT
GGCAGGTTGCTATGTAAATGGGAAGAATCCAGAGAAGAGGAGGAAATTAGTGATGCAACAGAGACAGTAATAACTGGAG
TGATATACTTGAAGAGGAGAAAAGAGATGATATCAGGCACATAAATGGAGGATTTGATAAATGTGATGGGGGCTGCAGA
GAAAAATTGTTTTCTGATTTGCTATTATTTTTTTCAAAGAAATAGGCTATCAACTGAGTGTGAGGATAGAGCAGAAGCT
GTTAAAAATTTAAGGAGAGTTGTGAAATAATCATCTGTAAGCAGGAGTGTGAATGAACTAGGAAGATGTAGTAATATTT
CTGGACAGCCCTGAGAGCTGAAATATTGTAAGAAATAATCTGAGGAAGTTCTGAGTACTTAGACAGTTGAGGTTAGGGG
GAGCATTTTATTAAAACAATCACAAAGAACATGGGAAAAACAGATACCAACTTGGCAATTGTCATAGTATTAAATAAAA
CTAATTTTGGAAAATTAAACTAAAAAGATGTTATATGCATTATGATGTTTCAAAATAGACTAGGGCCAATCAGACCCAA
TAGTTTCTTTATATAAGACCCCATAGTTTAATTATATAATTAAGTGTTACGTTCAAATTTTGATAAATGATAAATATAT
TGTACCACCATGGGAATTTGAAAATGCGACCATTTGTACTGGGATATTATCATGTAATATTTTAATTTTACCTCTTAAT
TATCAAAGTGAAAGATTTCCATGCAGTATTATTTGGTTGTGGGGTAATTGTTTAATTTATTTGGAATTTTATAGTGCTT
TTGCTTAGCCACATTTTATTTTGTGGTCAAATTCAAATGCTGATCTAATGGCTTCAGAGTAAAATGAGAAAGGTCAAAT
GGGACTGGAAATTAGGGTTTTCTTCCTGTCATTAGGTATATTTATTTATAAAATAACTGGAAAATTCCTCATGTATTTA
ACATCTGTTCCTTCTTTCCCTGGTCACTGCATATCAAGAAGACTTTGACATTGAGGTTTGATACGGTTTGGCTCTGTGT
CCCCACCCAAATCTCATCTTGAATTGTACTCCCATAATTCCCAAATGTTGTGGGAGGGACTCGGTGGGAGATAATTTGA
ATCATGGGGTAAACTTTCCCCCATACTGCTCTCATGGTAGTGAATAAGTGTCACAAGATCTGATGGTTTTATCAGGGGT
TTCTGCTTTTGCATCTTCCTCATTTTCTCTTGCCACTGACGTGTAAGAAGTACCTTTTGCCTCCTGCCATAATTGTGAG
GCCTTCCCAGCCATGTGGAAGTGTAAGTCCAATTAAACCACTTTTTCTTCCCAGTCTCGGGTATGTCTTTATAAGCAAT
GTGAAAATGGACTAATACAGTAAATTGGTACCAATAGAGTGGAGTGTTGATGAAAAGATACCTGAAATGTGGAAGCGAC

Fig. 6.107

TTTGGAATTGCCCAACAGGCAGAGGTTGAAACAGTTTGGAGAGCTCAGAAGAAGACAGAATAATGTGGGAAAGTATGGA
GCTTCCTAGAGACTTGTTAAATGGCTTTGACCCAAAGCCTGCTAGCAATATGGACAATAAGATCCAAGCTGAGGTGCTC
TCAGATGGAGATAAGGAACTTGTTGGGAACTGTAGCAAAGGTGATTCTTATTATGTTTTAGCAAAGAGACTCACAGCAT
TTTGCCATGCCCTAGAAATTTGTGGAACTTTGAACTTGAGAGATGATTTAGGGTATCTGGTGGAAGAAATTTCTAAGCA
GCAAAGTATTCAAGAGGTGACTTGAGTGCTGTTAAAGGCACTCAGTTTTATAAGAGAAGCAGAGCAGAAAAGTTTAAAA
AATTTTGTAGCCTGACAATGTGATAGAAAAGAAAAACCTATTTTCTGAGGAGAAATTGAAGCTGGCTGCAGAAATTTGC
ATAAGTAACGAGAGGCCGAATGTTAAGCCTTCAAGACGATGAGGAAAATGTCTCCAGAGTATCTCAGAGGTCTTCACAG
CAGCCCCTCCCATCACAGGCCTGGAAGCCTAGGAGAAAATGGTTTTGTGGGCCAGGCCCAGGGTCCCCGTGCTGTGTGC
AGTCTAGTGACCAGGTGCCCTGCATCCCAGCCACTCCAGCTGTGACTAAAAGGGGCCAAAGTACAGCTCGTGCTATGGC
TTCAGAGGGCAGCAGCCCTAAGCCTTGGCATCTTCCATGTGGTGTTCAGCCTGCAGATGCACAGAAGTCAAGAATTGAA
GTTCGGGAACCTCCGCCTATATTTCAGAAGATGTATGGAAATGCCTGGATGCCCAGGCAGAAGTTTGCTGCAGGGGCAG
GGCCCTCATGGAAAACCTCTGCTAGGGAAGTGTGGAAGGGAAATGTGGGGTTGGAGCCTCCACACAGAGTCCCTACTGG
GGCACTGCCTAGTGGAGCTATGAGAAGAGGGCCACAGCCTTCAGACCCCAGAATGGTAGATCCAATGACAGCTTGAAGC
ATGTGCCTGGAAAAGCCACAGATACTCAACGCCAGCCCATGAAAGCAGCCAGTGGAGGCTGCACCCTGCAAAACCAAA
GCAGCAGAGGTGCCCAAGACCATGGGAACCCACCTCTTGCATCAATGTGACCTGGATGTGAGACATGGAGTCAAAGGAG
ATCATTTTGGGGCTCTAAAATTTGACTGCCCTGCTGGATTTTGAGCTTGCATGGCCCTGTAACCACTTCGTTTTGGCC
AATTTCTCCCATTTGGAATGGCTGCATTTACCCACTACCTGTACCTGCATTGTCTCTAGGAAGTAACTAGCTTGCTTTT
GATTTTACGGGCTCATAGGTGGAAGGAACTTGCCTTGTCTCAGATGAGACTTTGGACTGTTGACTTTTGGGTTAATGCT
GAAATGAGTTAAGACTTTCAGGGACTATTGGGAAGGCATGATTGGTTTTGAAATGTGAGGACGTGAGATTTGGAGGGCC
CAGGGGGGAATTATATGGTTTAGCTCCGTGTCCCCACCCAAATCTCATCTTGAATTGTACTCCCATAATTCCCACATGT
TGTGGGAGGCATTTGGTGGGAGATAATTAGAATCATGGGGCAGTTTCCTCCACACTGTTCTCGTGGTCGTGAATAAGTC
TCACAAGATCTGATGGTTTTATCAGGGGTTTCCACTTTTGTATCTTCCTCATTTTCTCTTGCCACCAACTTGTAAGAAG
TGCCTTTTGCCTCCTGCCATGATTGTGAGGCCTCCCCAGACACATGGAAGTGTAAGTCCAATTAAACCTCTTTTTCTTC
CCAGTCTTGGGTATGTCTTTATCGCCACATGAAAACAGACTAATACAAGGTTATTCTATGAGTTAGAAATAATTCCTCT
AAAAGTAACACTTGCTGAGAATTTCCCTACCTTTTCTGGGCTTTTAAAAATGCATCTTATTCCTCATCCCCTAAAGTGG
GTGTGTTAGTCAGGGTTCTCTAGAGGGACAAAACTAATAGGAGATATATATATATATATCTCCTATATATCCTATATAT
ATATAGTATTAACTCACATGATCACATGGTCCCACAATAGGCCTTCTGCAAGCTGAGGAACAAGGAGAGCCATTCCGAG
TCCCAAAACTGAACTTGGAGTCCAATTTTCAAGGGCAGGAAGCATCCAGCATGGGAGAAAGATGTAGAGTGGGAGTCTA
GGCCAGTCTCATGTTTTCACATTCTTCTGCCTGCTTTATATTCTAGCTGTGCTGGTAGCTGATTAGATAGTGCCCACTC
AGATTAAGGGTGGGTCTGCCTTTCCCAGCCCACTGACTCAAATGTTAATCTCCTTTGGCAACACCCTCACAGACACACC
CAGGATCAATACTTTGCATCCTTCAATCTAATCAAGTTGACACTCAGTGTTAACTATCGCAGTGGGTAAAAGCCATTAC
TAGGCAACCCAACCGTTGCTGCAGGTTGATGCAGCAATGAGTAGGAAGATGTGGTGGGAAGATGTGGGAGTATAAACTT
CGCCAGGCAGTAATATAGGTATATAATACATGAGCAGGGCTGCAATACTCTCTTAGGAACTGGACAGCTTTATGGGCCA
AACCAAACCTCAAAACCCAGCTGCCCACCTGACACAAGACTGTCCATGGGAGTGAAGTTCTGCAGGGTTCTTTCCCATC
ATTATCCCAGGGGAAGAGTTACTCTAGAGAATGCCCACTTAAAAGGTATGTGAGTCTGACTCTGCAGATCACCCACTGT
CTACACAGCTCTTGTTTCTGAAGAGCTGTCCTTGCATTGTCAATACCTTGGTGCAACATATGTGGCTTCCTGCCCTTCT
GCCAAGTGGACCTCCTCACTTTGAGCACATGGTAAGCATCCTCCATAGGTACACAAAGTTTGTAGCAACTAACTCCTAT
CTGGAGTTACTCAGACCCACTACCTCTCCTGTTAGTGCATCTATGCTCTTCACAAAGTACAGTAAGCTCTGCTTCACTT
GTCTTGAAAACATGAATTTGTTCTAATGCAATGGACATATTGGAGAAGAATTTGATGAACAGCTAAAAAAAGCAATAGT
ATAAATAATTTTCATGGCTCTACATGTAACCTCTGGAATGCATAACAATGCTTTTTTCCATAAGAAGATGTTTTTCTGT
GCTTGTAGATTATTCTTTTAGACCTGTAAAGAATGCTTGGAAATAATTGATGAAGTGCCAAGTCCACTAAGTTTCTGTT
TTTAGCTTCTATCCTGAAGTTTCTCATATTCTTTACCTTTACATCTCTCAGTGTGAGCTCATATGAATCTGTGGCTTCA
GGTCCCATGTATATACTGATGACACCCAAATCTCTTCTTGAATGACCAAAGACCAAACTTTCTGAGTCACAGATTTTTA
TTTACATCTGAATGTACCCCTAGTATTTTAAATTTCTTAAATATAAAAGTTTAATATTTCTCATACCCACTTATGTATA
TGCATGTGTGAGTGTGAGTATGAGTGTGTGTACCACATATACTTACTATGTGTGTTAGGCATTGTCCTATATGTTTCAT
ATCTATTAACTCATTAATTCCCCAAACAGCCTTATGAGTTAAGTCTTCTCATTATGTCCTTATAATAAATGAAGAAACT
GAAGCCAAGGGATTAAGTAACTTATCCAAGGTCAATGAAGGAGCTGAGATTTAAATCCAGAAAATCTAATTCCAGAGGA
CAACCATTTTCCAAACATCATGCAATCCAACAAGGTGAAAGCCTGTAAGGATTATTTCAATTCTTTATTTGAATCTCTG
CTTCAGCAAGCACATTCACTGGAGGAAAGATATCCAGCCTTTGGTTACAGAGAAGGCATGCTCTCAGAAGGCTCATATT
TGGTTTACAGTTACTTGCTCATTGATTTTTGTGAGTTCCTGAAACTTACAGAACTTTCTTAGGTGTTCAGTCAAATTGT
AAACTATTATATGAATAGTGTCCATCATAGTTTTCATATGAACGTTAACCAAGGCCTCTCAATCACAGGTGGAACATGT
GAGCATAAGGTTAATATCATCAAGTAACTGGTGATAAGGCTAAAATGATGGATGAAAGTCAGATTGTGGAATACCTTAA
AGGGCAGACCAACAAGGTTTAAGGACTTTATCTTGCTGTTGGTAGTAATAATTTTTTGTACCAGGAGTTTGCCATGAGC
TTCAGACCATGTTTCAGGAAGAATCAGTTGGGCCTGTGTGTGTAGTTCCTGGATAGTAGAGCATGCACAGACCTTGAGT
GCACTCACTTTAGGGGTCTTACAGTCTGGTGCTGTGGTTCTCCAACTTTAGTGTGTATCAGAATCTCTTGGGGAAACAT
GTTATAATATCCTGGGAGGGCTTCATACCAGGACTCCGTCTTCAGAGATTTTGTTTCAGTGGAAATGGATTTAAAAGGC
AGTGAGCTGCATTTTCATAAACACCACTCTTGAAGATGATAATGCAGGTTGTTTGAGAAACACTGATCTAGTGGCTGTG
GAATTGATGTAAGTGTCAGGCAAAAATGGTCAAAAGTAGGATAGTTGGAAAGTAAGAGGTGGAATTTCAATTCTGAATG
GCCATTTGAGCCCACATGTTTTATTTATTTATTTATTGCAGATTCTCAGTAAACACACACACACACACACACACACACA
CACACACAACCTACATCCATCCTGAAAAACAGGAAAGGTTTCCATGCAGAGGTCAAAAACTGTGACGTATATCTGCCAT

Fig. 6.108

ATATAGTGCCTGGAGGACCAAGCTGAGGAAAGAAACCATCAGCTTAAAAACCCAGGCACAAATTGAAAAGCATTCAAGA
AAAGCAAGTGCATGGGATTCCTGAGAAAAACTTCATCAAACCCTCAAGTGTGAAGTAGAGTAACTGGAACAAAAGCGGA
AGCATGACAGTCAGCATAAGTAAACCTCAACTTAAACAGTCTCAAGGAGCCAGAGGTCACCAGATAAGCCGCCTAGGGA
AATGGGTTGACTGAGTCTCTTGCAGTGATCAGTTCAGGATAGGACTGCTTAAAGTAAGAAACTATGAGAGTTAATGACA
GAAACTTGTTTGGGTAATGCTCACTTTTAGAAAATAGAGAAAAGACAGTCAACAGAGCTGATAGGAAACTTGAAATCTA
TGCAGTGGCCTAGAAACAACAACAACAAAAGGAGTGATTTTCAGGAGAATGTGGTTAAATTGCCACAAGATATACAAAT
GTCAAACAACATGAAGATAAAGAAAAGATCAATTGTTTGGCAAGTTGGTGCTCATGTCATCTTTGTGAGAGATTTCAGC
AGAGTGGTGTGAACAGAAGTCAGATTGAGGGGGTGGAAGAAATGATTAAGAGATGAAGAAATGAAGTCATCAAAGGTTC
AACAGTCTCTCTGTGGTGTGTGTGTGTGTGTATGTGTGTGTGTTTGTGTTTAGTAGCAAAAAGGAAAGAGGGTTGGT
AGCTGCAGGGGTAATCAGAGTAGAATATTTTTATGAGCCAGAGGTCTTCTCTTCATGTATGGTGAGAAAAGGAAAGGAA
CCAGAAAGAATAGTAACTATTCAAGATGGCGAGGAGTAAGGTGATGATTGATGATGGATCATGTGTTGTGGGATCAGGG
TCTCTTTAGAGTTAATATAAATCAAATTTCAGGGCCATGAAGTAAGACAGTACATTCATATTTTATTGTAGTTAATTAA
TTCTCTTAAAAAGGGAATATAAAGGGAAGGTAATAGTTGCATATTTATAGATTGTAGTCTAATATGAGCTGATTTATAA
AATGTTGGCATTATGTTTTTGAGGTGGTAGGATAAAGAAAAGAAAGTGAAAACTTTAAGTGTAGGGTTGAGTTTATCAG
GAATGTGTTTGATATAGACTTGTGAGTGGTAATCTGGAATATATCTAGTATCTAAAGATACTAAAGAAAAACAAAGGGC
CAGTAGGCCTTATAGGAGAAAATGGATTCATAGCTCTTAAGGGATAAAAGTGAAAAAATGACAGATCAATATGGCTGTT
GTTACTAGAACCATTCCTTTGTTTGGAAAAAGTGTTAGTTACTCTTAAATAATTTAATGCCAAAACAAAATACAACATT
AACTGAAAAGGAGAATATAAAGTTATATCAACACTATAATTATAATTATTTAAAATTACTTATGTTGTGGATAAGAGTT
GGAAGGAAATATTTTTTTTTTAGAAATATGCAATTTGGGTAATGTCAAATTATTTTTCTTCTTCATAATAATTTTTG
CAGAAAAAAATCTAAGTATAGCTAACATTAGCTTATGAAAGTAAGGTGTTTTATTCAGATCTCATAATCTCAGATCTTTT
GAATGGGTTGTTGCAAAGGGATTAACAAAAATGTTGCTTGCTTTATACCGTTCTGCATAGGTAGCTATACTTATTAACA
TGATAGATGCAAACTGGTGTTCAGTTGATTATAATATATTATTTTTGCATTCCAGATGTCATTTCCTATGGGCAATGAG
TTTGCAATTTCCCAAATGTAAGAATTTAATTTTTTCCTGCTCTCGTTTCTGATGTCTTTAAGATCTTTGATTTTTTTTT
CTATTTAGCAGCACCAACCGAATTTTCCCATAAAGAAATATCTCATTAACCCAATTATTTTCCCATAAATAATTAACCT
AATTATAGACTATCAGTTTCTGCATTATGAGGTATTTATAAAGCTGACAGAATTAAGAATGTACATTTTCTCCTCTGCT
CTTTATCTGGGACAACACGTTGGTCAAATTTCTGTTATGAGTGGCTTTAGAATGGGAGACTTCCAAAGGATTATGTTGT
ACTGGTGGCACTATATGGCAATGGGGGGTGTCAGTAGGCATAAGGGGGTTACCCTTATTAACATCTTTGGAAGCTCAGA
ATTAAATCTATGTAATTTTTATATGCTATTGCTCCTCCTATAGAACTCTGGGTCTCAACCTTTTGTCTGTGGGCAAAAG
TTCACATGCACAACACCATCTAGGTTGGTCTGTGTTGCACATGGCTGCTGAAGATGTAAGAGAGACTGTGGATTCTGTG
CTGTTTCTCAGGCCCTCACTATAATCCATCGTTTGCCCTCCCATAGACTTGAATTATGACAACCAGGCTGGGACTCATG
CTATGTAGAAGACCTTTCTGGAGATGAGTTAAAGATACGTAGTCCAAGCATTGTGGCAGGAGCCATTCTTTAATAGTTT
CATGTCTTATCTGTAAATAATGTTGTTTACTACAAAGCATAACCTCCAACTTAAATCTTCTATACTAAGTTGTGAGCAA
AGAATTGAGCACACAACAGCAAGATCTAGGTTACTCCTTTCCCCTCCATTCACGTAAAATCTTATGTGAATGAGTATGT
GATTCAGTTACTGAATCAGTAAACTGGTCAATAATTCACTTATTTCACCTAAGAAGAAACATATTCTTTTTTAAAAGCA
CTGAATATTATATTGATGTTGGTATTATAATACAATGGAATTGTGTCTACCTAGTACCCTTATTTCTAGATCTCAAGTG
ACTAAACAGCCTGAATCTGGAAATACAGAGAAAAAATACACAAAGAGTCGTGAATTTAAATAGCAATTCTGTCACTAAC
TGGCTGTTTAATTTGAGTGTTTTATTTAAGCTGTGTAAATCCAGGCTTCTCACTGAAAAATAGAGATAATACATAGATT
ATAGCATTATATTGTGAAAGACACAAGATAGTGAACATATAGTTCTTTGCCCTGTATCTGGTACATAGTAGGTGCTCAA
AATTACTAGTTTTTTAAAAATAATTATCCTCATTATTTGGTGTCTTCAATGACCTTCTTACATAGTCCATTATGATAAT
AAATGCAATTAATTTTTTGTTCATGACACCCTGAAGGTGTTTCTGTGTCAGATTCACTCAGAGACCTCATGATGAGGAA
GGAACATGGTGGCGAATCTTACCCTGGTGATGCCAAACACAGCAGTGACTCATAACCATTCCAGCACTGCCTATGAAAT
GGATCAATTAAAGGACGGTGACACACAAAGATGGCTACTTCCAGAGGGAGACCTTGGAAATTCTTTTATGTTAACAGTG
TACCCCACACAAGAATAGGAGAACCACATTCTGTCAGTACACTGGGGAAGTTTTTTCAAAATATCTCTGGACTGTGTAG
ATTTCTGGTAATAGAAAATATGATCTGCCACTTCAATCTACTGAATACTGTCCGTTTTTTTCTATATAATGGCTTTTAG
GAACTGTTGTGAGGCATCCTAAGTATTATCTAGCCATCCATCCATCCATCCATCCATCCATCCATCCATCCATGTATCT
ATCTAATCTATGTGATTATATGTGTAGAGCTTATTCATACATATATATATACACACACATACATACACACATAGTTATA
TGTATTTATACACACATATACATATAATGTCTTTATCAGCCTGAAGTATGGATTTTTAAAGTGGTAATATTGCCTTACT
TATTGTTTCTCATCCACTGTGACATTCTATGTTATTTCAGTAAGATTTAACAAGCAAAGTGATGATGGATGAGAGTTCC
TTTGCAGCCTGGTGAGATTTTTACTTCATGTAAAGCAAAGCATTTTGGGGCAACATCAGGGATAAACTTGTGGAATGAA
TCATTTGGTTTTTCTTTAGTATATCCTGTCCACCATTGGGAACCAGATTCAGTAATTATGTTCTCTGGTTTGTACTCAT
CATAATGTCTTGACCTCCAGCTCTGAAACAACATATTTCCTGAGAGATGCTGATTGTATTTTGTGAGGTTCTGCAGGGT
CAAGTAAATTGAGGATGTCTTTATTCTGCATTTGACTAATCTGAATTAGATAGTCTTAGCCATTAAAACTTTAGAAAGC
ACATAATGACCAATTACAAGTGAGAGAATTTTTTTCAATAATGCTTTATATTTTCTAAGTACCGATACAGATGTTTTAT
TACATTTAAAACATGATTGCCCTACCACTTCACTTATATTTTAAAAACTAAGTTGCCATCTTGTAAAAATAAATACATG
GATATCATTTACAAGTGATATCAGTTAATACCTAATGTGAACATCCATTGTGTACTGAGTCTATGAAATACTACTAGTT
ACTATGAAAATGTGAGATTCACCGAATCGGGTGGAGCATCAACTTTATTATCCACATAGGTTACCCATTTCTTATATCA
TAGCTTTGGTTGTATAATTTATTTCAACAGAGTTTAGTTAAACATTTTCCACTGTTATTAGGTACTGCCACTCTACATT
CCAGTAAATATTGCCACCATGTTGCAGAACAATTTTTGGACAACCAGGCATATCTTTGGAGTTGAACTATGTGGAGGTA
CTACTGGTGCTGTGAGGGATCACCTGTAAACCTGGCAGTTTTAGGTGGCCTCTAGACGTTATAGGGTCAAGGGAGAAAT
TTTTTTTGTTCTTGTTGTTTAATACTGTGAGTACATTTAAATGCTCATGTAAAAGAGCCAACTTAGAGGGAGTGGTTGA

Fig. 6.509

AGACACAAGAGAGATAAGAGCTGATTGTTATGGCAAGGTCTCTGGCTAGGCAGAAGTGAATGGGTCGAAGAGAACAGAT
TTAGGAACTGACCTTCTATCAGGAGAACAATATTTCTTCCAATGTCATGGGGGAACATAGAGACTCAGGGGGTCTGTAA
CCATGTATGGCCCCCAAAGGACTGGACACATGGTGAGCAACTATGGTAGGATGAAGGGAGGCATGTTAGGAAATGTCCA
GCTCCGAGGCCTCCACGTGACCCCTAGGTGAGAAGCTGCCATGATTCCTTAATAGGGAGCAACACAAAGACTAAAATGA
TGGCAATGTAAGGGTTAAGGAAAAGGTGATTTTAAAAGCTTCTTGAGGGTAAAGTCCATCTGTGTTCACTTTTGTGATC
TTTGTTGCATCCTTCTCAATCTTGCATATTGTTGATCTCAAATAAGTTTATGGTATTTATTATGTTCAAAAAAGTTACA
GTTTCTTAAGTTTCTTCTATTTCTTAAGGAAGGAGGTGATAGGATGGAGGGGGCATGATGCCAACTTGACTCTCCTGC
TTAGGACTTGCCCTTCTTTTAAATGGTGAACACAGAGTTACATTATTTAATGCATAATGTGAAAGTGACAGAGGCCCTG
ATTATTGGAGTATAAAATTTTATATTATTATGGAGGCTAAAAAGTACATGACTGGACTTTTTCATACAATAATTCAAAG
TAAGCCCATGGAACATCCTCTTCAAATGAAGTTGACGTACGTCTCATCTCCCTGGATTGGATGCCCAACCCTCACCCTT
GAAAGCAGCTTGTGGATAACTCAGGGCAAACAGAAGCAGAACCCTCATGAACCTTCTCTCTTCTGGAAATTTTGGATGG
CGTTACAGAATGAGGCAAAAATAAAGTTACCTTCTTCTCTTTTCTTGGATTAAAGATCCCAGAGCCATTCTCCTCTGTG
TTCTCTACTTGGACCTTGTATAGTGTAGGATATAGCCAGGAACTAAGGATCCTCGGTTGACTCATAGTCGGCAGAGGGT
GTTATGGCCCTCCTGAGAGAGTGACCTTGAGGAGAGAATCTATTCAGATGGTTTTATGACAAGACCAAAGTAACATTTC
TTAGTTACCTCTTAGCCAGAGTTTAGTGTTAAGTTTGCCCTGAAGTATAGTTTTCAAAATAATGAGATCAGGCATATGC
TATTTTGACTAAGTAGAATACCCAATAAAATAAGTCATTCAAGTTGTGACTGAAAGTTCGGATGGTCCTTATGGAATCA
AGGTGACCAAATAACATGATACTAAACCAGAAGTGAGTCATGTTGTTTATCATACTGTTTTTATAAATTTTGTATAATA
CAACCCCATACGACCCCACACAGTTCAAAACAGTAGTGGTTACTCACTCCATGGAGAAGATGTCAAAAGTAAAAGGAAT
AATACATTGGTTATGATGTCTGAAATTGGGCACATAAGCATTTAGTTTTGTTGGTGAATAATGTTCAGAATGAAAATTG
ACACACTCTTTGGATTATCAAGCTTTTTAAAAAGTATAATTAATCAGTTTTTTAATGAAATATACAGAAATATAATGGC
AGCTCTTCTATTAGTGAAGTTTCCTGAGGCAGCTGGATTGATTGAAGGCTTTACCTGGTTCATTTGGATTCTACTTGTA
AAGCATGAAGAAACCAACTTTAGGGTCAGGAATTTTCCATAAGTCAGGTTTTTTTAAAAGCCATATAATCGATGCAGA
TATCAAAACATTAAGATGAGATAAAAAATAGCTTTTAATCAAGTAAGTTAAATTAAATAACTGTTAAGGTTCAAATCATG
AATTAAATCTAGATGTTTGGCAAAGACAAAAATCTTTATAAAAGGATAAAATAGTCTGGGAATAAAGTATTTGTCATTC
CCATATCAAATGAGAACAAAACTAATAATTTTATTAACTTTAGGTTTTTATTGTATTAAATAACATCATTTTTATTTAC
TTTATCACAAGGTATATTTTTCTTTATTATATGTCTTTGTAGAAAACCTAGTAACATTCCTGTGTGACTGAATAGATTA
ATCACAGATATACCCATCTGGAAAAATGCATGCTACTATAAGAGATGAGTGAAATATATAAAATTTATATTTTAATTCT
TATGCTAATTAGTTAAATGGGGGAAGATGTATGTCCAGAATATTTGCTCTTAATAGGACATCGTAGTGAAAACCATTCC
AATGATGATGACTAATAAATGTGTATCTTCAACATTGTATAATGCCCAGGAATATTTCCAAATAAAGAATTTCTAGGTA
AGATGTTTAACAAATATATGATACTTTTGTTTTCTGGGTGAATGTTCAAACTAATTTCCTGGGGATCATTGTGCTCAGT
ACTTATAGTATCATTAATATATTATTGTTGACATATAATAATAACCAAAAATATCCTGGTCAGATAGGTTTTTTCTTTTTT
AGCTGATTCATAATCATTGTACATATTTATGGGGTACAGAATGATATTTCAATATGCGTATACAATGTGTAATGATCAA
ATCAGGGTAATTAGCGTATACATCACCTCAAACATTTGTCATTTCTTTGTGTTTTGAACATTGAAAATCCTCTCCTCTA
GTTTTTGAAAATACACAATGGATTATAGCTAACCATGTTTACCCAACAGAGCTACAGAACACCAGAACTCATTCCTCTC
ATCTAGCTATAATTTTATATCTGTTAACCAACTCCTTCCCATCCTCCTCTTCCCCCATCCTTCCCAATCTCTAATACCC
ACAATTCTACTTTACTACCATGAGCTGAATTTTTTATTTTAGCTCCCTCTTATGAGTGAGAATGTGCGGTATTTATCTT
TCTGTGCCTGACTTATTTCACTTAACATAATATCCTCCAGGTTCATCCACATTGCTGAGAATGACAGGATTTCATTATC
TTTTTGTGGCTGAATAGTATTTCATTGTGTGTATATACCACATTTTCTTTATCTATTTGTCTGTTGGTAGACATTAAGG
TTGATTCCATATCTTAGCTGTTATAAGTAGTGCCGCAATAAACATGATGGTAGAGGTATCCCTCTGATATATTGGTTTC
CTTTCCTTTGGATAGATACCCAGTAATGGGATTGCTACATCATATGTTAGTTCTATTTTTAGTTTTTAAAGAAATTTCC
AGATTGTTTTCCATAATGGCTATACTAATTTACATTTGCACCAACAATGTATAAAAGTTGCCTTTTCTCTGCATCTTTG
CCATCATTTGTTATTTTTTCTTTTTCATAATGGCCATTCTAACTGGGGTGAGATAATATCTCATTGTGGTTTTGATGAT
TAGTGATGTTCAGCATTTTCTCATATACCTGTTGGCCATTTGCAAGTCTTTTGAAAAGTGTCTATTCAGATATTTTGCC
CACTTTTGAATCACCTTATTTGTTTTTTTCTGTTGAATTGTTTGAGTTCCTTGTATATTCTGGATATTAGTCCATTGTC
AGGTGAATAGTTTGCAAATATTTTCTCCCATTCTACAGGTTGTCTCTTCACACTGTTGATTGTTTTCTTTTCTGTACAG
AAACTTTTTAGTTTAATATAGTCCCATTTGACTATTTTCGTTTTTGTTGACTGTGCCTCTGAAGTCTTAGCCAAATAGT
TTTTATTTCCTTCAAATAGCTTTGGCATTTGAGTACCACTTCGCTCATTCCAGAAAAGCAACCACCCAACCAAAAGAAT
AGGTTTTTAATTTTTTTTTAATTATTATTATACTTTAAGTTTTAGGGTACATGTGCACAATGTGCAGGTTAGTTACATA
TGTATACATGTGCCATGCTGGTGTGCTGCACCCATTAACTCATCATTTAGCATTAGGTATATCTCCTAATGCTATCCCT
CCCCCGTCCCCTCACCTCACAACAGTCCCCAGAGTGTGATGTTCCCCTTCCTGTGTCCATGTGTTCTCATTGTTCAGTT
CCCACCTATGAGTGAGAATATGCGGTGTTTGGTTTTTTGTCCTTGCGATAGTTTACTGAGAATGATGATTTCCAATTTC
ATCCTTGTCCCTACAAAGGACGTGAACTCATCATTTTTTATGTCTGCTTATTATTCCATGGTGTATATGTGCCACATTT
TCTTAATCCAGTCTATCATTGTTGGACATTTGGGTTGGTTCCAAGTCTTTGCTATTTTGAATAGTGCCACAATAAACAT
ACGTGTGCATGTGTCTTTATAGCAGCATGATTTATAGTCCTTTGGGTATATACCCAGTAATGGGATGGCTGGGTCAAAT
GGTATTTCTAGTTCTAGATCCCTGAGGAATCGCCACACTGACTTCCACAATGGTTGAACTAGTTTACAGTCCCACCAAC
AGTGTAAAAGTGTTCCTATTTCTCCACATCCTCTCCAGCACCTGTTGTTTCCTGACTTTTTAATGATTGCCTTTCTAAC
TGGTGTGAGATGGTATCTCATTGTGGTTTTGATTTGCATTCCTCTGATGGCCAGTGATGGTGAGCATTTTTTCATGTGT
TTTTTGGCTGCATAAATGTCTTCTTTTGAGAAGTGTCTGTTCATGGCCTTCGCCCACTTTTTGATGGGGTTGTTTGTTT
TTTTCTTGTAAATTTGTTTGAGTTCATTGTAGATTCTGGATATTAGCCCTTTCTCAGATGAGTAGGTTGTGAAAATTTT
CTCCCATGTTGTAGGTTGCCTGTTCACTCTGATGGTAGTTTCTTTTGCTGTGCAGAAGCTCTTTAGTTTAATTAGATCC

Fig. 6.110

TATTTGTCAATTTTGGCTTTGGTTGCCATTGCTTTTGATGGTTTAGACATGAAGTCCTTGCCCATGCCTATGTCCTGAA
TGGTAATGCCTAGGTTTTCTTCTAGGGTTTTTATGGTTTTAGGTCTAACATTTAAGTCTTTAATCCATCTTGAATTGAT
TTTTGTATAAGGTGTAAGGAAGGGATCCAGTTTCAGCTTTCTACATAGGGCTAGCCAGTTTTCCCAGCACCATTTATTA
AATAGGGAATCGTTTCCCCATTGCTTGTTTTTCTCAGGTTTGTCAAAGATCAGATAGTTGTAGATATGTGGCATTATTT
CTGAGGGCTCTGTTCTGTTCCATTGATCTATATCTCTGTTTTGGTACCAGTACCATGCTGTTTTGGTTACTGTAGCCTT
GTAGTATAGTTTGAAGTCAGGTAGCGTGATGCCTCCAGCTTTGTTCTTTTGGCTTAGGATTCATTTGGCAACGCGAGCT
CTTTTTTGGTTCCATATGAACTTTACAGTAGTTTTTTCCAATTCTGTGAAGAAAGTCATTGGTAGCTTGATGGGGATGG
CATTGAATCTTTAAATTACCTTGGGCAGTATGGCCATTTTCACGATATTGATTCTTCCGACCCATGAACATGGAATGTT
CTTCCATTTGTTTGTATCCTCTTTTATTTCCTTGAGCAGTGGTTTGTAGTTCTCCTTGAAGAGGTCCTTCACATCCCTT
GTAAGTTGGATTCCTAGGTATTTTATTCTCTTTGAAGCAATTGTGAATGGGAGTTCACTCATGATTTGGCTCTCTGTTT
GTCTGTTGTTGCTGTATAAGAATGCTTGTGATTTTTGTACATTGATTTTGTATCCTGAGACTTTGCTGAAGTTGCTTAT
CAGCTTAAGGAGATTTTGGGCTGAGACGATGGGGTTTTCTAGATATACAATCATGTCGTCTGCAAACAGGGACAATTTG
ACTTCCTCTTTTCCTAACTGAATACCCTTTGTTTCCTTCTCCTGCTTAATTGCCCTGGTCAGAACTTCCAACACTATGT
TGACTAGGAGTGGTGAGAGAAGGCATCCCTGTCTTGTGCCAGTTTTCAAACGGAATGATTCTAGTTTTTGCCCATTCAG
TATGATATTGGCTGTGGGTTTGTCATACATAGGTCTTCTTATTTTGAGATACGTCCCATCAATACCTAATTTATTGAGA
TTTTTTAGCATGAAGGGCTGTTGAATTTTGTCAAAGGCCTTTTCTGCATCTATTGAGATAATCATGTGGTTTTTGTCTT
CGGTTCTGTTTATATGCTTGATTACATTTATTGATTTGTGTATATTGAACCAGCCTTGCATCCCAGGGATGAAGCCCAC
TTGATCATGGTGGATAAACTTTTTGATGTGCTGCTGGATTCAGTTTGCCAGTATTTTATTGAGGATTTTTGCATCAATG
TTCATCAAGGATATTGGTCTAAAATTCTCTTTTTTGGTTGTGTCTCTGCCTGGCTTTGGTATCAGGATGATGCTGGCCT
CATCAAATGAGTTAGGGAGGATTCCCTCTTTTTCTATTGATTGGAATAGTTTCAGAAGGAATGGTAGCAGCTCCTCCTT
GTACCTCTGGTAGAATTCGGCTGTGAATCCATCTGGTCCTGGACTCTTTTTGGTTGGTAAGCTATTGATTATTGCCACA
ATTTCAGATCCTGTTATTGGTCTATTCAGAGATTCAACTTCTTCCCGGTTTAGTCTTGGGAGAGTGTGTGTGTCCAGGA
ATTTATCCATTTCTTCTAGATTTTCTAGTTTATTTGCGTAGAGGTTTTTGTAGTATTCTCTAATGGTAGTTTGTATTTC
TGTGGGATCATTGGTGATATTCCCTTTATCATTTTTTATTGCATCTATTTGATTCTTCTCTCTTTTTTTCTTTATTAGT
CTTGCTAGCGGTCTATCAATTTTGTTGATCTTTTCAAAAAACCAGCTCCTGGATTCATTAATTTTTGAAGGGTTTTTTG
TGTCTCTATTTCCTTCAGTTCTCCTCTGATTTTAGTTATTTCTTGCCTTCTGCTAGCTTTTGAATGTGTTTGCTCTTGC
TTTTCTAGTTCTTTTAATTGTGATGTTAGGGTGTCAATTTTGGATCTTTCCTGCTTTCTCTTGTGGGCATTTAGTGCTA
TAAATTTCCCTCTACACACTGCTTTGAATGTGTCCCAGAGATTCTGGTATGTTGTGTCTTTGTTCTCGTTGGTTTCAAA
GAATATCTTTATTTCTGCCTTCATTTCGTTATGTACCCAGTAGTCATTCAGGAGCAGGTTGTTCAGTTTCCATGTAGTT
GAGTGGTTTTGAATGAGTTTCTTAATCCTGAGTTCCAGTTTGATTGCACTGTGGTCTGAGAGACAGTTTGTTATAATTT
CTGTTCTTTTACATTTGCTGAGGAGAGCTTTACTTCCAACTATGTGGTCAATTTTGGAATAGGTGTGGTGTGGTGCTGA
AAAAAATGTATATTCTGTTGATTTGGGGTGGAGAGTTCTGTATATGTCTATTAGGTCTGCTTGGTGCAAAGGTGAGTTC
AATTCCTGGGTATCCTTGTTAACTTTCTGTCTCGTTGATCTGTCTAATGTTGACAGTGGGGTGTTAAAGTCTCCCATTA
TTATTGTGTGGGAGTCTAAGTCTCTTTGTAGGTCACTCAGGACTTGCTTTATGAATCTGGGTGCTCCTGTATTGGGTGC
ATATATATTTAGTATAGTTAGCTCTTCTTGTTGAATTGATCCCTTTACCATTATGTAATGGCCTTCTTTGTCTCTTTTG
ATCTTTGTTGGTTTAAAGTCTGTTTTATCAGAGACTAGGATTGCAACCCCTGCCTTTTTTTGCTTTCCATTTGCTTGGT
AGATCTTCCTCCATCCTTTTATTTTGAGCCTATGTGTGTCTCTGCACGTGAGATGGGTTTCCTGAATACAGCACACTGA
TGGGTCTTGACCCTTTATCCAATTTGCCAGTCTGTGTCTTTTAATTGGAGCATTTACTCTATTTACATTTAAAGTTAAT
ATTGTTATGTGTGAAGTTGATCCTGTCATTATGATGTCAGCTGGTTATTTTGCTCATTAGTTGATGCGGTCTCTTCCTA
GCATCGATGGTCTTTACAATTTGGCATGTTTTTGCAGTGGTTGGTACTGGTTGTTCCTTTCCATATTTAGTGCTTCCTT
CTGGAGCTCTTTTAGGCCTGGTGGTGACAAAATCTCTCAGCATTTGCTTGTCTGTAAAGGATTTTATTTCTCCTTCACT
TATGAAGCTTAGTTTGGCTGGATATGAAATTCTGGGTTGAAAATTCTTTTCTTTAAGAATGTTGAATATTGGCCCCCAT
TATCTTCTGGCTTGTAGAGTTTCTGCCAAGAGATCTGCTGTTAGTCTGATGGGCTTCCCTTTGTAGGTAACCCAACCTT
TCTCTCTGGCTGCCCTTAACATTTTTTCCTTCATTTCAACTTTGGTGAATCTGTCAATTATGCGTCTTGGAGGTGTGCT
TCTTGAGGAGTATCTTTGTGGCGTTCTCTGTGTTTCCTGTATCTGAATGTTGGCCTGCCTTGCTAGATTGGGGAAGTTC
TCCTGGATAATATCCTGCAGAGTGTTTTCCAACTTGGTTCCATTCTCCCCATCACTTTGAGGTACACCAATCCGACATA
GATTTGGTCTTTTCACATAGTCCCATATTTCTTGGAGGCTTTGTTCGTTTCTTTTTATTCTTTTTTCTCTAAACTTCCC
TTCTCGCTTCATTTCATTCATTTCATCTTCCATCACTGATACCCTTTCTTCCAGTTGATCGCATTGGCTCCTGAGGCTT
CTGCATTCTTCACGTAGTTCTCAAGCCTTGGCTTTCAGCTCCATCAGCTCCTTTAAGGACTTCTCTGTATTGGTTATTC
TAGCTATACGTTCGTCTAAATTTTTTTCAAAGTTTTCAACTTCTTTGCCTTTGGTTTGAATTTTCTCCTGAAGCTCGGA
GTAGTTTGATTGTCTGAAGCCTTCTTCTCTCAACTCGTCAAAGTCATTCTTCGTCCAGCTTTGTTCCATTGCTGGTGAG
GAACTGCGTTCCTTTGGAGGAGGAGAGGGGCTCTGCTGTTTAGAGTTTCCAGTTTTTCTGCTCTGATTTTCCCCATCTT
TGTGGTTTTATCTACTTTTGATCTTTGATGATGGTGATGTACAGATGGGTTTTGGGTGTGGATGTCCTTTCTGTTTGTT
AGTTTTCCTTCTAAGAGACAGGACCCTCAGCTGCAGGTCTGTTGGAGTTTGCTAGAGGTCCACTCCAGACCCTGTTTGC
CTGGGTATCAGTAGCGGTGTCTGCAGAACAGCGGATTTTCGTGAACCGCAAATGATGCTGTCTGATGGTTCCTCTGGAA
GTTTTGTCTCAGAGGAGTACTTGGCCGTGTGTGGTGTCAGTCTGACCCTACTGGTGGGTGCCTCCCAGTTAGGCTGCTC
GGGGGTCAGGGGTCAGGGACCCACTTGAGGAGGCACTCTGCCCATTCTCAGATCTCCAGCTGCATGCTGGGAGAACCAC
TGCTCTCTTCAAAGCTGTCAGACAGGGACATTTAAGTCTGCAGAGGTCACTGCTGTCTTTTTGTTTGTCTGTGCCCTGC
CCCCAGAGGTGGAGCCTACAGAGGCAGGCAGGCCTCCTTGAGCTGTGGTGGGCTCCACCCAGTTTGAGCTTCCTGGCTG
CTTTGTTTACGTAAGCAAGCCTGGGCAATGGTGGGCGCCTCTCCCCCAGCCTCGCTGCCACCTTGCCGTTTGATCTCAG

Fig. 6.III

ACTGCTGTGCTAGCAATCAGCGAGACTCTGTGGGCGTAGGACCCTCCAAGCCATGTGTGGGATGTAATCTCCTGGTGTG
CCGTTTTTTAGCCCGTGGGAAAAGCGCAGTATTCGGGTGGGAGTGACCTGATTTTCCAGGTATTGTCTGTCACCCCTT
TCTTTGACTAGGAAAGGGAACTCCCTGACCCCTTGAGCTTCCCAAGTGAGGCAATGCCTCGCCCTGCTTCGGCTCGCAC
ACAGTGTGCTGCACCCACTGTCCTGCGCCCACTGTCTGGCACTCCCTAGTGAGATGAACCTGGTACCTCAGATGGAAAT
GCAGAAGTCACCTGTCTTCTGCGTCGCTCATGCTGGGAGCTGTAGACTGGAGCTGTTCCTATTTGTCCATCTTGTCTCT
TCCTCGATTTTTTTTTCAGGTTTTAATTTTTTTAATTCATATTTGATATTCTTCTTAATGCTAGATGTAAGTAAATT
AGATTTTTCCCTGTTAATATTTTATAAACCATTTTTTCTTTTAATTTAGTGAGAGTGACAGATAGAATGATTTACTCTG
AATTACTCTTCCTCTTGAAAGATTAAAGCTTGCTCTTAAGTAAAGTTTGTTATGCCTATCTGTTTTGTCTTCGGTTTAT
TTTTTTCCATGGAGCTGCTTCTTCCTTCTTACAAAATGAAGTTCTGGAGGACCAACAGGTCACTACATGTATTCATAGT
TATATAAATTCTAGCAATGGTAACAGTTTGGCTCATGTTGGGGCCTGGCTACATGTTCTTCATTCCTGTTTAATAAATC
TCATCTTTCTACCATATGCTAGTAATATATGGCTGGAATGCTGGTATGGGAATTACTCCCCTCTTTGCTGAAATAGTTC
ATCTCTTGTGTCCTTTTCCCCTTTTTATTCTTCTATTCTTCTTAGCCTAAGTGATGGTTGTGATTGAATTCAGAAGTTT
GATATTCCTACTCGGTTCATGTCCACCCAAAAGCAGAGAGGAGCCCATCATCATCATTTGTTTTGAATCTGAATCCCAA
GCAGGAAAAATAACTCCAAGGCTCTTACTTAGGCTGTCGTGTCTGTTCTGTCATGCGGTGAGTCAGCAACACTGACTGC
ATTTATTCTTCTGGGAATTGTTCTTCTAGGAGCTGTAGTAGTCATGGTACCTCCCTGCAGGAGTTCATGAATTAATAGG
ACTCATAGTGCAAAGTTTCTCTGAGAATTTTCTATAACACAAACTCCTTAACTTCCTGGTGGGTAATGTTTTCTGGGTG
TTTTTTCTGTTTTCTGTTTTTTTTTTTTTGTCATTTCTTCTTTAGTAAAATGAAAATTGCAAGTAGAAAAGAAACTAAA
AATGGATTTAGTGTGAGGACAGGTTCCTTTTCCTGGCAGGATTGTAGAACACTGGTATTCAGTTGACTGTTTACAATGA
ATATATCTTCTGGTTGGTCATGGCCAGAAGAGAAAATGTCATTGGTTTGTGCCCAAGCAAATTGATTATTAAAATACGT
TGAATATGACCCCATGGTTGCAAACATCCCTTTTCTTAGTAATTCTTAGAGATGAAGAAAGTCTTTTATCTGTTTTCTA
TTTCAACTTTCTGGGTAATCTCTATCCTTTCTTTTTGATAAGTCTCTGTCTTCCCTCTATCAGTGTGAATAATGTTACT
ATTGAAAAACTGGTTCCCTAGCTACCTCAGTCCTGGGGTCTTAAGGTTTCTTCAAAACGTGACAGTCATGTTAAAATGA
AATTCTCTGAATTTATTTAGAGCACTGTTTGTAAAAGTGTAAGTGTTATTATGCAGCCTTGCTTTCCTACCTACCTGAA
TTCTCTCCCCTACTCTCCCCAACTCATATTGCCAGCAGTGGGTAGCTGGCAGGATGTTTGAAAGATTTCTTCTTCACAA
TTCAAAAGGCTTGGTCGAGTGACAGGATTCATATCCCAAACCTCAACATCACACAATACTCCCATGTAACAAATCTGCA
CATGTACCCACTGTATTGAAAATAAAATTAAAAAAACTAAAAAAAAGCAAAAAAGCAAAAAAACAAAAAACAAAACAAA
ACAAAATCCCTGGTATATATTAAGAGTCCCAGTGACCTACTTCACTTGCAAATTAATGGCCATCTAGAGTGTGGAGTTT
GGTTGAATGATTTATACTGCATTGTGATTCTAAAAATTAATTATTTTTAATTTCTTTGATACTCTAGATCAGTTTTCTA
AGGTAAATGTGAAGTACATCAGTGACTCCAAACTCAATTGAGGTCTCCCGATTTTCTTGGACTGACTATGTATATTTTA
AAGAATTATTTACTTTCATACTTTGCCAAGACCCAGACAGAAAGAAGCTTTCAGTGTTCGTGGCAGCAGAAAAGAATAC
TAATAAGTGTTAGTCATCCACAGTAAATTAAAAATATAATAATAAAGGAAAATTAAACTGCTGTGTGTTTGGGTGTTTG
CTCTATCACCATAAATTCACAACCTCATCTTCTAGTCTCTGAAAAGGAGTGGGTGTGGCAGGAAGCATTTGTGAAATTC
CATTAGCATTTTTAGAGACAATTACTCCACTAAATGATTCAGAATTCAGCTCCTAGCTTCTAAGATTCTACTTAGGCTT
ATGAAGCATTTTATTCTGCAACAGAGTATACATATAATGTAGAATTCCTAGGATTGAAAAACTTGTTAGCTTCCAACCC
AAATTCTCTTACTTTTAGATGAGAAAATGCTGATGATTGGCCTAAAGTCTTATATCTACTGGTGGAGGAGTGGAAATTC
ACTCGTTTACCTTCGCACTGGAGGTAGATTCAAAATACTTCAGAAACGATGTTAGACTAGAGCATAATGCTTGGCCATT
GATAAATAAATAAATGAATATAAGATGTTGTGCCCTGAGATTCAGAATTGGCAGCAAGAATGTGGGTATTATAAAGGTA
TATTTTTCTTCTTGCCTTATTATTGAATAAGAGTACTTGAAAATGGATGAAGGCAACCAGATGTTGAGTCAGATTTCCT
GAGCTTTGAATTTTGGACCTGCATTCATTTCATTTCTCTAGGAAGGTTGCCCCCCTCTTTATTTGTTCAGTGCTTATAC
CAGATTTTATTATACTGGAGATTTCTAAAGCCTCCAACCAAGGAAGATTCCCTGACTTCTGCCTTGCTGCTGCACCACA
CAAATAACCATATCAATTTATATTGCACTATTCTCAACCCCACAAACTCCATTTAGACCTAACAGCTATGGACAGTGGC
CCTAATTTCCTAGGAACATGATCATTTTGTTCTTGTTTGGTGTCTATGCCAAGCTCCAAATCACAAAAAGCTGTTAATT
CCAATTACCTTTTGCAAAATCCATTTTGAAGTCTTCTCACAGATGGATGTATTTAAAACACCTAGAAGGTTAACATCCT
TTGTGAGGCCTCAGCTTTGACTTAGAAAAAGCTCATGCCACAGTGTGTATGTGTGAACCTATTTCCTAAGAGCTGATAT
ATGCCCATGGTGTCTCACTGCAGGGCTGGTGATAAATGATGAAACCATTTAGTGCATAAACTCATATAACCTTTCAGCA
GAATCAATAATTTAGTTGCAATTTAGTTGCATACCTAAAACAATGCAAGGTTGAAGAACCCTGAGAAGAGTGGTAGCTC
CTGATGACAGAAATAGGAGTCTCAGGTATTCTTCTTTTGTTTCCCAAGTGGTATCAAGCATGTGTCTGACTCACTGGTG
CTATTTTACATTGTGAAGGAAGTATGGATGAGGGAAGGCAAAACCAGTGCAAATATTCTAGATCCACTTATTTCCTTCC
CGCTTTCCCTTCCTCTCTTCCCCTCCTTCCTTTCTTCTTCTCTTTTATCTCTTCCTTCCTAAATTAATATTTTTGAGGG
TAGGTAAAATAGCTATATTACTTAAAAGTCAAACTTTATAAAAAGGTAAAGCGGAGATGTCTGTCTCCCAATCCCATCT
ATTCCTCCTTCACCCTGTTCCCCATCTATGAGAAATTATATTTATTAGTGTCATGTTTATTTTTTCAGTGTTTCTATAT
GTAATACTCATTATATGTTATACAAACACAAATATACATATACATAATTTCCTTCCATTTTTATCAATTTCCTTCCTTT
CTCACTGTCCTGCTCCTAGCTTTAATTTTACCAATTARTAAAACATACTAAAGATTTTTTCATATCAGTGCATGAAGC
TTTTCCTCTTTTTTCTTTCAACTGCATAATATTCCACTATGTGGAAATATCATGGTTTATTTAAATAAATTCTTATCAG
GGAATATTTGAGTTGTTCCAGGGTTTTCTTTCTTTCTTTCTTTTTTGCTGTGAAAAACAATGTTACAGTGAATAACTAA
CATCATTTCTCATTTCATATGTGTACAAAGTATCTGTGGGATAGAGTTCCAGAACTGAAATTGCTGCTTGAAAGGGTAA
ATTGTTTCTGTGGATTTGTAGAAATTTCCAGATTTCCCTTTATAGTAGTTACACCATTTTATAATCCTACAGCAAAGTC
TGAAAGTGTATTTTTTCACACATCCTTTCAAAAACATTCAAACTTTGGATTTTTGTACATCTAATTGGTGAGAAATGATA
TACTTGTTTTCATTTTCAATCTATTCTTATAGATGAACCTGGACATATTTTCATAAGTTTAATAACCATTTGTTTTTCT
TTCTCGGTAAACCGTATTTCCTTTGCTAATTTTTCACTGGGCATTTGGTGTTGATTTCTGTCAAATCTTTACAAAGTAG

Fig. 6.112

AGAAGTTTGTACTTTGTTTATGATCTGAGTTGCAAATACTTTTATTCCTTCCTTGACATTTATCATTTGCCTTAACTTA
TGGTGAATTTTTACCATGCAAATGTTTTTGATTTTCATGTTGTTCAGTATGTCAATATATTTTATATTCATTACATTCA
TTAGTGGCTAAAACTTCCCAAATGTTGGTAGGAATATGGATGTCTAGATTAGTGAGGCTCAAATGCTCCAGGCAAGATC
AACGCAAAAAATACTTTTCCTAGACACATTAAAATCAAATTGTCAAAATCAAAGACAAAGTGAGAATTCTGAAAGCAGC
AAGAGAAAAACTACTCATCACATGGAAGGGTACTCACAAAGGCTACAAGCAGATTTCTCAGCAGAAACTTTGCTGGGCA
GGAGGGAGTGGAATGATGTATTCGGAGTACTAAAAGAAAAACAAAACTGCCACATAAGAATAATGAGTCTGTAAAAGCT
GTACTTTAGAAATGAAGAGACATAAAATCATTCCCAGAGAAAAGAAAGCTAAGAGAGTTTATTTCCACTAGACCTGCCT
TAAGAGAAATGCCAAAGGGAGTTCTTCAAGTTGAAATGAAAGGACCCGAAGTAACATCATGAAAACACAGGAAATCCCA
TAGCTAACATCATACTCATGTTGTAAAGCCAAAAGCTTTTCCATTAAGATCAGCAAGAAGACAAGGGAGTTCACTCTCA
CCACTTCTATTCAACATAGTACTGGGAGTCCTAGCCAGGGCCACTAGGCAAGAAATGGAAGTAAAAAAATATCCAAATTG
TAAAGGAAGAAGTTAAATTGTCTCTATTTGCATAAGGCATGGTTTTTTATAGGAATCTCTAAAAACTTCATCAAAAAAC
TTAAAATTAATAAATTCAGCAACGTTGCAGGATACAAAATTAACATACAAAATCCAGTTGCATTTCTGTACATTAACAA
CAAACTATTTGAGAAAGAAATTACAAAGACAGTCCGTTTACAATAGCATGAAAATAATAAAATACAGAAGAATAAATAC
AACCAGRGATGTGAAAGATCTGTACACTGAAAACTATAAGGCATTGATGAAAGAAATTTAAAAATACACGAATGAAAAC
ATATTTTATGTCTATGTATTAGAAGAATTAATATTGTTAACATGCCTTTACTGTCCATGTAATATACAGATTCAACCCC
TATCAAAATTCCAATTGCATTTTTATATAAAAATGTGTTGGGTACATTATAATTCTATTCTAGCTATTTGAAATATATA
ATAAATTATTGTTAACTATAGTTTTCCTACTGTCCTATCTAATGCTAGAACTTATTCCTTCTATTTAACCATATTTCTG
TATCTATTAACCAACTTCCAGGCTGTGTGTTGACAGTTTTTCTAAGAGTTTTCCCAAGGCAAAGAGTAAGTGGAAGTCA
ATCTTAAATCACTGTGTCTGGCCGTGACCCGTGATAAAAGATTTAATGGAAAATTTCAGTTTAGATGAGGGTAACAGAC
ATTCATCAGATACTGGGTGCTGGAGATAGATTCAGAGCTAAGTAAGAAATCCTATTTTTGAGATTAAGTAATCTCACTT
CACACCCAGTGACACTGCAACTGTTGATTAAGAGTTTTCCAGTCTCTTTTTATCCCCGTTAGCCTACAGGAGCAGGTAA
ATATCTAGTTCCTTCTGGGTCTGAAGATTCTGTAAACTTAAAAGGAGAGATCCTTTCTGATTTGTATATTATTGGATTT
TCTAATGTCCATCACAGCACCGGATTTAACACTCACACACATGCACACACACACAGGATATATTGAATGAGTAAATAAA
TAACAGACAGGAGAGTTGTTACTAACTGATCTCTAATATTACCTTATTGTTCTAATAACTGTGGATTTGATATAACTTT
GGGAGCAAGCAAGGTATCAGTCTTAAAGTATAGACAAATTTACTATGTCACCTCAGATACTCAAATAGAGAATATCCTA
TGCCCAAATGGCAAGGCTGAATTGAYCCAAGTGATTAAGTCATACTCTTAAAACTGTATAACCTAATAACCTTTTATTA
AGAATAAGTTCAGAAAAACAGTTCACAATTTCTTTTTACTTAAATTGTATATATTATATGTGCAGTTTTCAGATGTGAA
TGGGATTTGAGATCAGAAAGGCAGGGCTTCATACTGCATTTCTCCAACTTGCTCTCTATTTGTCCTTTAGCAAAAGACA
ATCTTTCCTTCTTTACTTTTTATTTGTTAAACACACACACACACACACACACACACACACACACACACACACACACACA
CACAACTTCATAGCATCCAATGAGCAGTATCTAGGTACACGGCCAATGCAAAGCACTCATTTTCTTATTTCTCCTTCAC
ATGTTTTTCATTCCTATTTTCCATCTTTGCCATGGACAAGACTTCATTCCCTAGCTGTGGCTTTAGAATAACAGTATGA
CTAGATCATATTCATTTTTAGCTTAGCACATTACCTCCCATTTAGTTGAAATGAATATCAACAAGAATTCACACTTCTA
AATGCTTGAAAGCACAATGTCCATCCAAGATCCAAGTGACTGAAATAATAAGAGCCTTGTTATATGAAGAAATACCCAT
TTTCATGATGTTTTCTGAGGCATTAACTGTTACTCTGAAAAGAAAGAAGAGTGTTGGTAAGACTTGGGTATGAGATAAA
ACAATTAGATATTTGCTTATAAACTGGAATGACCTTGTAAATGGCCCAGGAGCAATGTAATTAAATACCATAAAAGCTC
AGAATTCCATTGTGCCCCCTGGAAACATCATAATTGCCTCAGTCATTAGCTTTCAGGGTTTCAGCCTTAAACCAGGATA
TTTCTAGTCTCATCAAAACTATACATTAGCATTCAGTGACTTGTAAGAGTAAACTTCCTTCTAGATAGTCCTGTGTGCT
TATGAAGTACATCCAAATGAACATATGACATGAGGTGGAGTACAACTTAAAGTTGCCTTCTTTCATCCTATATATTTTT
GTTTATTCTTAATGTATCGTGAACTTCAGTAGAGAGCAAACAAGTTGTCTTTATAATTTGAAGTTTTGCTTTCTCTTTT
TGAAAGAAAACGCATAATTTGGAGATTCCATCTGTGAAAAAAACTTAATTAAACAATGTTAATTTTTAAAATTCTATTA
TGTATAAGGTGTAAGGAAGGGGTCCAGTTTCAGTTTTCTGCATATGGCTAGCCAGTTTTCCCAACACCATTTATTAAAT
AGGGAATCCTTTCCCTATTGCTTGTTTTTGTCAGGTTTGTCAAAGATCAGATGGTTGTAGAGTGTGGAGTTATTTCTGA
GGCTTCTATTCTTTTCCATTGGTCATAAAAACCCTAGAAGAAAAACTAGAAAATACCATTCAGGACACAAGCATGGGCA
AAGGCTTCATAACTAAAACACCAAAAGCAATGGCAACAAAAGCCAAAATTGACAAATGGGATCTAATTAAACTAAAGAG
CTTCTGCACGGCAAAAGAAAGTATCATCAGAGTGAACAGGCAGCCTACAGAATGGGAGAAAATTTTTGGAATCTATCCA
TCTGACAAAGGGCTAATATCCAGAATCTATAAAGAACTTAAACAAATTTACAAGAAGAAAAACAAAGAACCCCATTAAA
AAGAGGGTGAAGGACATAAACAGACACTTCTCAAAAGAAGGCATTTATGTGGCCAAAAAATATATAAAAAAAAGCTCAT
CATCACTGGCCATCAGAGAAATGCAAATCAAAACCACAATGAGATACCATCTCACGCCAGTTAGAATGGCAGTCATTAA
AAAGTCAGGAAACAACTGATGCTGGAGAGGATGTGGAGAAATAGGAATGCTTTTACACTGTTGGTGGGAGTGTAAATCA
GTTCAACCATTGAACTTGTAGATAGACAACTTGTAGATAGACAGATTCCATTGTGGAAGACAGTGTGGTGATTCCTCAA
AGATCTCAAACCAGAAATACCATTTGACCCAGCAATCTCATTACTGGGTATATATCCAAAGGATTATAAACAATTCTCC
TATAAAGACACATGCATATGTCTGTTTACTGCGGCACTTTTCACAATAGCAAAGACTTGGAACCAACCCAAAAGTCCAT
CAATGATAGACTGGATAACAAAAATGTGGCACATATACACCATAGAATACTATGCATCCATAAAAAAGGATGAGCTCTT
GTCCTTTGCAGGGACATCGATGAAGCTAGAAACCATCATTCTCAGCAAACTAACACAAGAACAGAAAACCAAACACCAC
ATGTTCTCACTCATAGGTGGGAGCTGAACAAAGAGAACACAGGGACATGGGGAGTGGAACATCACACACTGGGGCCTGT
TAGAGGGTGAGGGGGCTGGAGGAAGGATAACATTAGGAGAAATACCTAACGTAGGTGATGTGTTGATAGGTGCAGCAAA
CCACCATGGCACGTGTATACCTATGTAACAAACCTGCACGTTCTGCACATGTATCCCAGAACTTAAAGTATAATAAGTA
AGTAAATAAATAAGTAAAAAGAAATATGTTAAAAAATTATATTATGTAGATATTTTTGTTATCTTGCTTCATGCCAAGT
GCTTTCATAAATGCTAGACTTCTATTTGTACATTTTGCTTTCATGAGGGTGAAGACAAATAAAGAGTGATCATTCAAAA
ATATTAATGTACGGAAAAGTAAAGTAACTGTAGGGCTTCCATAACAAAAGTACAACAAATTGAATGGCTTAAACAAGAG

Fig. 6.113

AAATGTATGTATTGTCTCACAGTTCTGGAGGCTAGGAGTCTCAAATCAAGGTGCCAGTAGCGTTGATTCCTTTTGAGTA
AGCTGAGAGAAAGATCTGTCCCTGGCCTTTCTTCTTGGCCTGTAGATAGACAACTTCCTTCCCTGTATGTCTCTTCACA
TTGTCTTCCATCTGTGCACCTCTCTGTGTTCAAATACCCTCCAACTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGCA
TGTCACTCACATTGGGTTAGGGCCTACCCTAATGATTTCATCTTAACTTGATTACCTCTGTAAAGACTTTATCTCCAAA
CCAAATCACATTCTAAAGTACTGGGGGTGGGTGAGGATTTCAATATATGAATTCTGGGGAGACCCAAAGCAATCCATAA
AAGTAGCCATTTAAATAGAAGTATTTTTAGTCTTTTAACTTAAAGTCTCTCTACARTGTTAAACCATGCCATCTTAATG
TGTGTTATTTAGAATAATCTAAAAAATTATATATTTTCATTAACATTTAGGTTACCTTCAACTTTGTTTTTGATGTTTT
GTAAGCTGCCCATAAGTGACTTTAATCACTCACTGTATACCACTGACAGATCATTTCTCATGAATTCAGTGATGTGCAC
TTTGAGACTCAGGAAAGAGGGAAACTTGGCCTTACTAAAATCATATAGTTAGTATGTGGCAGAGCTGATATTCAACTCT
ACATCTTGCTGCCTCCAAAGTTAGTGATATATGCATGGTCAATATTATTTTAAAATACTCATTTAGTGCTTGCCTTTTT
AATAAAATGCTGATTTTCCTGATTATAAGTGTAACAGGTGATCACTGAAGAAAGTTTAGGAAAAAACTCAAAACTTATT
CAGATTAATATTAAAATTACTCATAATTTCACCATCCATAGATAATTGTTGGTATATTATCTTACAGAAATCGTTTATA
AACATTTTTATTATTCAATTTATATATTTATATCTGCAGAACTACATATGTAGTTTTACTTACCACCAAAACTTGTTGC
AAAAAAACATTTTTACATTTGCCCAGTTAAAAATCACCATTAATCTTAGTGGAGAATTATTTTTTAATTATTTAAAATA
AGAATATTTTCATTTTTGCATTTTTCTAGAGAGAGCATGGCATAAGCCTTGTAAAGTTACTCCTGAAATTTAATTTTCT
TTTCTTATTTCCTACTCTCTAGTCCTAAGAGATGAGTGGTTCAAGACAGAGTGGGGGTAAGGCAACAGTCAGCACTTTG
TCTTTGCTCCACTCTCTGGTTCATCTCTGAAGCCTGATTTCTCTACCCAGGCATGAAGATACTTGAATAAGTAGCCTTT
TCCATCCTTTTGCCCTGATATGAAAACTGGTATATCTCTTGAGAGAAGAGCCTCAAAAAATAATCTGAGATAGGAACAA
GTGGAAAGCAGAGATAGTCTCTTCTTTTTAATTCACCCCTCCTTTGGTCACCTCCTGAATATAAAAAGAAGGACCCAGA
ACAACATGGTGTCCACGGCAACCATATCTAGGTATTGCAGAATTTTAGAGAACCCATGAAATCCTTTCAAAGGATAAGC
AGGGGATCTAAATCGTGTCAGATGTATAGCACCCAGCACAGAGCTGAGGGCAGAATATGTGCTTCATGCATCTTTTTTG
TTTGATGGCAATATCACTTCAAGGCTTCTTCAGAAAGATTCCATACCTACCTCTCCTTCTCACTTCTTTATAATCTGTA
ATTTACACACTTACCTCACAACTTTTCTGGGACACATTCAATCTATCAGATATGTAACCACTTGTAAGCTGTTGGTTTG
ATTCTGCAAGTTTTGGTGTGGTAAGACTGGAATCGTACAAATGATATGCTTGGATCAGGTAGTCCCTCGTGGTGAGTCA
TGTCTAGGCTCACCCCGATGCAGTCCAGTCATGCTTCCCCTATGACTTAGTTGTTTGTATTGTCCCCAGAGTCAAGAGT
GTCCCAAGTCTATGAATCTTGCTCCAGAGCATTGTAATTTAGCCTACGGCCTTGTTCACACAAATAAATCTGGCATTAG
TTCCAGCTGGCAGTGATATGGGCTTGGTGATTCACTTTTAGGCCTCATTGGAGTAGAGTTAAAGAAACTTCATTGTCAG
AAAGAGTGAGATCTCTACCATGTGTCTTCTAAGAGTGTTCAGAGTGTTTTTTTTTTTTTAGCGTGCAGAAGTCCTAACTT
TATTCCTAGTACCCTCCATTCTCTCTTTTTTTTATTGAAACATAAGAATTGTGCATATTTACAGGGTACATGTGATATT
TTTATACATGTATACAATGTGTAATAATCAAATCAGAGTAATTAGGTTATCAGTTACCTCAAACATTTATCCTTTGTTT
GTGCTGGGAACATTCCAAATCTCTTCTTCTAGCTATTTTGCAATATAAAATAAATTACTATTGCCACCTTATGATACTA
TCAAACACTATAACTTATTCCTTCTATCTAACTGTATTTTTTTACACATTAACCAAATTCTCTTCATCTCCTCCCTGCT
TCCCTTCCCAATGTCTGGTAACCATCATTCTACTTTCCACCTTCATGAGATCCACTTTTTTAGCTTCCTTATATGAGTA
AGAACATGCAATATTTGTCTTTTTGTGCCATCGCTTAACGTAATATACTCTAGTTCCATCTATGTTGTTGCAAATAACA
GAATTTCATTGCTTTTTTATGGCTGAATAATACTATATTGTGTATATATTTCACATTTCTTTTTTTTTTTTTTTTTTTT
TTTTTTTTGAGACAGAGTTTCGCTCTGTCGCCCAGGCTGGAGTGCAGTGGCGCGATCTCGACTCACTGCAAGCTCCACC
TCCCGGGTTCACGCCATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGACTACAGGCGCGCGCCACCATGCCCGGCTAAT
TTTGTATTTTTAGTAGAGACGGGGTTTCACCGTGTCAGCCAGGATGGTCTCGATCTCCTGACCTCGTGATCCGCCTGT
CTCGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCGCGCCCGGCCCACATTTTCTTTATCCATTCATCTACTG
ATAGGTATATAGGTTGCTTCCATATCTTGGCTATTGTGGATAGTGCTGTAATAAACATGGGAGTGCAGATATCTTTTTA
ATACAGTGATTTCATTTTTTAAAATGTATTCCCAGCAGTGAGATTGCTGGGTCATCTGTAGATCTATTTTTAATTTTTT
GAGGAACCTCCATAGTGTTTTTCACAGGAGCTGTACTAATTTACATTCTCACTAACAGTGTATTAGCATTTCTCTTTCT
CTACATCCTTGAAAGCATTGTTTATTTTTTGTCTTTTTGATAATTACCATTTAAACTGGGGTGGGATGATATATCATTG
TGTTTTTCATTTGCATTTCCCTGATAATTAAGTGATGTTGAGGTTTTTTAAATACACTCATTAGCCATTTGTATGCTT
TCCTTTGAGAAATGTCTATTCATATCCTTCTCTGCTTTTCAATGGGATTATGTACTTTTTTACCTTGTATATTCTGGAT
GTTAGTCCCTTGTCAAATGAATAGTTTGYGAATATTTTCTCTCATTTAACAGGTTGTCTCTTCACTCTGTTGATCATTT
ACATTGTTGTGCTGAAGCTTTTTAGCTTGATGTAATTCCATTGTCTAGTTTTGCTTTTGTTGCTTGTGTTTTTGAGGTC
TTACCTAAAAAATCTTTGCCCAGACCAGTGTTCTTCCAATTCATGAGCATGGGATGGATATCTTTTAATCTTTTGTGTC
CT[illegible]TTAAATTATTTTCAACAGTGTTTTATAGTTTTCATTCCAGAGGTCATTCACTTGTTTGGTAAATTTATTCCCAGA
TG[illegible]GTTTTTGTGTGTGTGTGTAAGTATTGTAAATGGGATTACTTTCTTGATTTCTTTTTCAGATTGTTCACTRTTGGTA
TA[illegible]AGAAATGTTACTGCTTTTTGTATGTTTATTTTGTATATTGCAACTTTAATGAATTTGTTTTCAGTTCTAACAGGT
TT[illegible]GGTYGAGTCTTTAGGTTTTCCTAAATATAGGATCATGTCATCTGTGAACAATGATAGTTTGACTTTTTCTTTTCCA
ATTTAGATGCACTTTGTATCGTTCTCTTGCCTAACCGCTGTGATAGGACTTCCAGTGCTATCTTGAATAACAGTGGTAA
AAGTGGGCATCATTGTCTTGTTCAGATCTTGGAAGAAAGAATTTCCATTTTTCCCCATTCAGAATGATGCTAGCTGTGG
ATTTGTCATGTAAGATCTTTATTGTTTCGAGGTATATTTCTTATGTATCCAGTTTGTTGACAGTTATTATCATGAAGGA
ATG[illegible]AAATTTTATCAAATGCTTTTTCAGCATCTATTGAAATGAGCATATGGTTTTTGTCCTTCATTCTGTTGATACAA
TGT[illegible]ACATTGATTGATTTACATATGTTGAATTATCCCTGCAACCCTGGGATAAATCCCACTTGGTCATAATGAATAT
TTT[illegible]ATGTTTTGTTGAATTCAGTTTGCTTGTATTTTGATGAGGATTTCTGCATCTGTGTTCATCACTGATACTGACCT
GTAGTTTTCCTATTTTGTTGTGTTTTTATCTAGTTTTGGCATCAGGATAATCCTGGCCTTTTAGGATGAGTTTAGAAGT
ATAGTTTAGAAGTATTCCCTTCTCTTCAATTTTTTTGAAACAGTTTAAAGAGAATTGGTATAGGTTATTCTTTAATCGT

Fig. 6.114

TTGGCAGAATTCAGCAGTGAAGCTGTCAGATCCTGGGCTTTCCTTTAATAGGAGGCTTTATTACTACTGCAGTCTCATA
CTCATTACTGGTTTTCAGGTTTTCTCTTTTTTCATGGGTTCAATCTTCATGGTTTGCATGTGT[illegible]AGAAATTYATCCAT
TTCTTTTAGGTTTTCCTATTTGTTGGTGTATCAATTTTCATAATCTTGTCTGTTGCTTTTTTTTTGTATTTCTGTAGT
ATCAGTTGTAATATATTCTTTTTCATCTCTGACTTTATTTTTTAGACTTCTGGTTGGTGTAGCTAAAAGTTTCTTGATT
TTTTTTTCAAAAAACCAACTACATTTTGTTGATCTTTTGTATTTTTGTAGTTCAAATTTTATTTATTTATGCTTTGATC
TTTATTATTTCTTTCCTTCTACTAATTTTGAGTTTGATTGTTCTTGCTTTTTTAGTTCCTTGAAGTACAATGTTAGGTT
GTTTGTTTGAAGTCTTTCTACTTTTTGATGTAGGTGTTGATTGCTACAAATTTCCATCCTAGAACTGCTTTTGGTATAT
CCTCTAGGTTTTTGTATGCTGTATTTCCATTTTCATCTGTCCTAAGAAAATTTTTTAAATTTCCTTTTTAATTTATTCA
TTGACCAATTTGTTTTTCAGTAGCATGTTGTTTTCTTTCCATGGATTTGTACAGTTTCCAATGTTCCTTCTCTTATTGC
TTTATAGTTTTATTCAATTGTGGTCAGAAAATATACAGGATATGATTTTGACTTTTTTGACTTTTTAAAACTTGTTTTG
TTACCTAACATATGGTCTATCCTAGAGAATGTTCCATGTGCTGTTGAGAAAAATGTGCATTCTTCAGCTATGGGTAAA
ATGTTCTGAAAATGTCTGTTAGGTCAATTTGATCTAGAGTAAAGTTTAATTCTGATGTTTCTTTGTTGATTTTCTTGTC
TAGATTACCTATCTGCTGCCAAAAGTGGAGTGTTAAAGTCTCCTACTATTGCCTTCTCTGTTGTTTTTAACTGTCCTTG
ACTTAAGGTCTGTTTTATCTGATAATTATAGCTTTACTTCTGCTCTTTTTGTTTGTTTGTTTTCCATTTGCTTCTAATA
TCTTTTTAAATATCTTCACATTCAGTTTGTGAATGTCTTTACAGATGAAGTGAGTTTCTTGTAGACAGCATATAGTTGG
ATCCTTTTAAAAATTCATTCAGCCACTCTGTCTTTTAACTGAAGAATATAATTCATTTATATTCAAGGTTTGAATATTA
TTGATATGTAAGGATTTAGTATTGCTATCTTGTTACTTGTTTTCTGGTTGTTTTGTAGAATCATTTCTTTCTTTTTCTC
TCTCTCTCTTACTTTCGTTTTTGTCACAAAATAATTTTCTCTATTAGGACATGTTGATTTCTGGCTACTTATTTTTAGT
GTATCTATAATAGGTTTTTGCTTTGTTGTTACTACAAGGCTTATAAAAATATATTTATAACAGGTTATTTTAAACTGAT
AATAGTTTAACTTTGATGCAAATAAACAAAAATAAACTCTACATTGTAATACCACCCCCTCCCACATTTTGACTTATTG
CTGTTTCAATTTACATATTTTTATATTGCCTAACTCTTAATCAATTGTTGAGATTATTTAATAGTTCTTCCTTTTAGCT
TTCATACTTAGGATATAAATTGTTTACTTACCCTAATTATAGTATTATAGAATTATGCATTTTTCTGTTTTTTAATAGT
GAATTTCATACTTTAGGTTTTTTTGTTTTGTTTTTTGTTTTTTGTTTTTTACACATTAGCATCCATTTTTTTTTCAGAT
TGAAGAATTCCCTGTAGCATTTTTTGTAGGCGAAGTGTCGTGTTGTAAATTTCCTCAGCTTTTGTTTGTCTGAGAAAGT
TTTTTATCTCTTTTTCCTGTTTAAAGGATAGTTTTCCTGGGTATAGTATTCTTAGCTGGCTTTTTGTATTTGTTTCCTT
CAGCACTGTGAATATAGCATCTCACTTCTTTTGGTCTGCTAAGTTTCTCYGAGAAATCCGCTGAAAGCCATATTAGAGA
TCAGTTGAATGTAATGTTTCTTTTCTCTTGCTGCTTAAAGTATTCTTTCTTTGTTTTTGATTTTTACTAATTTCATTAT
AATATATCTGGGTAGTTTTCTCTTTGAGTTGAATTTGTTTAATATCTTTGAGCTTCCTGCACTTGGATAGTGTTGGTTT
TCTCCAGATTTCAGAAATTTCAGCCGTTACTTTTTGAAATATGCTTTCTAGACCTTTTCCTCTTTTACATAATATCTGT
TGGAAATTTCTATTATGTGGAAGTTAGTTTGCTTGATGGTGTCCCCTTATTCTTCTTTACTCTTTTTTTAAATTCTTTT
TCCTTTTGCTTCTCTGACTGGGTAATTTCATTTATTCTTTTTTCAAGCTCACTAATTCTTTCCTCTTTTTGATCAAGTC
TGCTATTGAAGCTTTCTATGGAGTTTTTCAGTTCAGTTATTATATTGCTTGCTTCTAAAATTTGTTTGCTCTCTTAAAA
TTGTTTTTATTTTTGTGAAATTTCTTATTTTGTTCCTGGATTGTTTTCCAATTTCAATCTGTGTTTTATTGTGATTCTT
TCAACTTCTTTAAGAGAATTATTCTGAATTTTCTGCCTGACATTTTGGAGATGTTGCATTCTTCTGTGTCTATTGTTGG
AGTTTTGTTGGTTTCTTTGAGTGGTGTCATATTTCCCTGAGTTTCCACAATCCTTGTGTCTTTATGTTGATGCTTGTGT
GTTTGAAGAGTCAGCTACCTCTTCCAATTATTGTGGGGGTTTTTTTGGTGGTGTTAGGCCTTTATTCCTTAGTAATGAA
ACTTCAATGTTGGCCTGTTATTTCTTCCCATTCTGGGAGTCTTATAGTGTGCACTGGTACAAAAACACTTTGCTGGAAC
TAACTTGTTGCCCTGCCATTGTTTCCCACTCTGGGGATGTTTTATAGTGAGCACTGGAAGTTAAAAGCTGTCCTGAAAT
TATATTGCTGCCCTACAGTTTTTTCCCAGTCTGGTAAAGACAGGTGAGTACCAGAACTCAGTCCCAACTTTTAGTTGTT
TCTGGGCCAGGGGAAAGCTCCACCTGGGATTTATAAAAAATTCAGCCACAGATTTGGGCCTTTGCTTGAATGGTGCCCC
CCCTTGCAGCACTATGGCATCATCCAGTCTCTTCAACATGGCACCCCCACTGATTGAAGCACAGAGTTGCTGCCTAGAT
CTGCATGCCAGTCTTTGAGATTAATGTCCTGTGCCTTGTCTTCCAATCAGCCCTCTGGGATACCCAATGGTTCCCATAT
GATGGGACTGGAGTGGGCTTCCCATGAAGATTCCCAGACTGATGGGGAGATTGAACATTTCTCCTGCTCTCTTGAGTTG
TCAACCATGTGTTTGCATTTAGGCAGCAGATGGAATTATTGCAAATCATTTACTTTATAACCATTTGTCCCCTTATACT
ATCTTACAATCTACTTTTCATATAATTGTGATGAGTTTTCTGCTGTTATGGAAAATTCCATTTATGGCTAAAGCTTTTA
GTAAATGCTATGAAGCTTGATGACTCTCTCTACTGAATGGGAATAATTATGCATTAGTTCATAAAATGTTCTTATGAGT
TTGTTTAGTCACTAGAAAGGCTAGAATACTGATGCTTAAATATAAAAAATATATAGTTTAAAGAGCTATAATATCTAGC
AGTTCTTTTGTTTCTAAAGCTCCCTGGACATTGAGTAACAAATAAGTTAATAAAGCAATAGTTTGTTATTTGATTTTAT
ATCAGAAAGCCTAAATAGTATTTTAAAAATAAAGCTTCCATATATTCAATCTTATTGGAAAAAGTATTTGAAAAGCTCA
ACCTCAGCTTCCCCTGTTGTTTTATCTAGAATATTTAAGACTTTCTTAACATAAATCATCAAAAATATGTATTTTTTCT
AGTTGAGATTTAACTAGATTAATTCAGTGTGTGGTATTTTTGGCTATCATAATAAAGGTATTGCATTTCCAAACTGCAG
AATATTTGCACTGAGTAAAATAGATGCCATTTTTTTACTAAGTAATTAAAACATTGTCAGAGGATATGCTTTTAAAAAT
TATCACAATAGCTGTAAAGTCAATTGTGTTAATATTGGCAATCTGTCCCTTCTATTTAGAATTTTGTGCCTTAGTCTCT
GATAATTGCATCATTTACAAATCCCCTCTTTACATAAACATGGCCTTTCACCTAACCCTCTAAATTAATCAGCCCTCTT
TTGATTACAAGTGACAGAAACTCAAATCAAAATAGCATAAGCAATTTAAATAATAACAACAATAAATGATGAAAGTTTA
TTAGTTATCTTAGCTGGAAGGATTTTTAAAGATGTAGAAATAAAATGAGTAACTGTAGAGTCAGTGCCTCAGAGACTCA
CCTCGTCATGAGTAGGACTTTTTCCCTCCATCACTTTCTTACCTCTTCTTAGCTACATCTACATGAAGGCATTCTCCAC
TTGGAAAAAAAGACGGAGGCACAACCTCCCATAGAAAAGAGTTTCTTTCTCCCATTATCAATATATCTGCTTGGATTCT
GCTTGGCTATTTGCTTGGATTAAATGTTTACTTTTTAGATACATTACTGCTAATAGAGAATGAGAAAATAAGACTGGCT
ATGCCTGGAGGTTAGGAAGTGAGGAACAAGAGAGGGGCTTCGCAAGAATCATGTGGAATGATTGTGTGATGCTTTCTGA

Fig. 6.115

AAGGACATGAGTCTAGGCAGTCAAAAATACCTGGCTAAACACCCTAAGGCTATATTCCCTCTATATATTCCCTATTCCC
TATATTCCCTCCCTTACCCAAACTACCCAGCATCTGCTATTCCCGAACTCTTTTCCCCTCTCATTTTTTTGCATTTCTA
TTGGAAGATTAACCTGTGAATAATCTTTTCAGGTTCCTACCTTTAAAAATACAGGACAAAGACAACTGCTTCATTATAC
TCTTATCTCAGTGGAGTAAAGAAAGTATCTAGAGTTCTGTCTCTTTTTCAAAGTAGATTATTACTCTTAGGAAAAATAA
AATGGGCAAATCAGAGTTTATATTCAAAATATCTCGTAACACCTAAATAAGGCATGGACGCTGAACAATCAGAATTGGT
CTTTGTGTAGACATTGCATCCTGGAGGCCCGTATTATATCAATCAGGCTTAAATTTCCTCATTGCTGGATCATTACATG
GTCCTACTTATCTGGCTGATGGGGCAGGTTAACAGTTGAGGGCTAGGGGAGTTCAAAGTAGTAATTATTTATCCACCAG
GACAGAAACTATGTAATATTTTGGTAATAATACATGACTGCTGACTAACCAAGGCGGGTCACTATGTAGGGGTGCAGGA
TTAACAGTTACTTAATAGAATTAGCCCTGCAGTGACAAACTTTAAGAGAGTTACGTGTTTGGAACATTGATTTAAAATG
TTCTTTTAAGTAGTTGCTTTGTAGCTTGCTTGTTTTGTTTTCTTTTTCCCAAATGTACTTCAAATGGGTCACTGAATAT
CTTCAAATTGTATGTAAATTTTGGAGGGGAAGTGGTATATGCAGATTTTTTTTTTTCTGGAAAGAAGACCAATCACTTT
TGCCAAATTCTCAAACAGGCCCATATTTCTCTCACACACATGCGTGCGCATGCGCACACGCGCGCGCGCACGCACACAC
ACACGTTAAGATGCGAAGAATCACTGTCATAAAATGTCATATTTCTAATTTCTGTAAATGGGGAGAATTCCTCAAGCTT
ATATAAAAGTGATGTAAATAATTCAGTTACAATTATAAAAGAAATGGTATCACAGCAAATCCCTTTGGCACCCCACTGA
AAATTTCTCTCTGATGTTTAAAACACCATTTCTATGCTTACTCTTACAGCTGTATTAATAATCAGATAAGGGGTTTATT
TCTTGTCTATTTTGCTTAGCATATTACCAAATCTGGTTCATATGAACTCATGGGTAAAATCTAAAAATGTTCATGAATT
ATTCTTCATGAATTTTTCACAAAGCAATAATGTATGAAAAAGTGAACAATATAACATCAGCCAGAGACGCCTCAGTTCG
CAATTTACAATGAAGAAAACTGGCATATACTTTAGAGGGAATTTCTAATAAGCCAAAAGGTTAAAAGCTAAATGGGGTC
AAGAGCTGTCACCTTGACAAATGGTAAAGTCTAACCTTTGGCTCCCACCAGGCCAGACCATAACCGTAGAGTTACTAAA
GAAAGCAACTGTCAAGGAACAAGCCCATTATTAAGACTGTTACTTAAAGTTCTAAGGGAACTTCCTTAAACCGTTCTAT
GTGTACTTTATTTATCTTGAAACTTTTTGGGAACAGCTGTATAACAGGAAGTAGTATTTCTGAGGCCCAGGAAGTGAGT
AAGGGCTACACAAATTGGGGCTAATGACTCTATTTTGAAAAACAAACAAACAAACAAAAAAACTAAAAAACTTCTCAGG
TGTTTTATGATGAAAGTCTACTTCTCTATCTTCCATACTGTTTGCCATCTTCCTTGATGATTACATCTGATGACCAAGC
TCAGGCTTTCCCATACAAATTTATTTTGCCAAGTTTGCTTTGAAAGAATATTAGATTTTGTAGAGTTTTACATTATTAA
AATCGTGAGTGGCTTCTTTTGCTTTTCACTGTTGAGTGTTTTTGCTACAGCCTAACCTATCTTTTTCTTATTGCTTGTT
TTCTTTGTATTTGCTACTCAATATAGCTTGTCAAATGTGTAATTCATGTCATATACAGTGCTGTCTAATATAATTCATG
GGTATAAAGTGAGAGAGAAATGTAATTCTAAAGTTACTTGAGGTGGACCACTAAAAGGTCCTGAGTTCATTTATTTATT
CAGCAAATATATATTGTCCAATTGCAAGCTAGGCATCAAGTATATTCAAGGTGGTAAATAAAATGAGCCTGATCACTTC
TTTTAGGGCATTTACAGTGAAGTGGAGGGGACGGACATGACTCAATCAGGTGAACACATCAGCCATATAATTACAAATG
AACATGAGAGCTGCAAAATAAATAGACGAGAGAGCTTTGAAAAAGAGTAATAAAGGGGGCTACCTCAGATGGAGGGAGG
AGAGGTTTTATAGCAAACTTCTCTGAGAAGAAAATATTTTAGCTATGACCTGAGAAATCAGAAGGTGTCAGTCAAGGTG
GGAGAAAGAAAATTTAAGTAGAGCGAGCAGCATGCCCAAAGGTCACATGAGGAACTGAGGAACTGATGGGAGGCCAGCA
TGGCAAGAATGAGTAGGAGAGAGAATGGCACAAAATGAAGAACAAGAGGGCAGTGTGGCAGCACTACTGCTGATACCCA
GATATGTGACATTCCACCTCATTCCAGACACAAAGTAGAATTGCACTTCCTGGCTCCCTTGTGTTTGGGTGGGGCCCTG
CTACTAGATCTAGCCAGTGAGTTGTGAGCACAAATGATGCCTGTAACTTTCTGGTCAATTTCTGAAACTAAAGTATGTA
ATGGATCAGATCACCTCTGCACTAGAGTAGTCATTCAGTAAGACAAGGAGGAAAAATGGTGCTGGGCCCTATGTGAGGA
GACTATAGTGTCCTAGTCAGTTTGGGTTGCTGTAATAAATTACTATAGATTAGGTGGCTTAAGCAACAAACATTTATCT
CAGTTTTGGAGGCTGGGAAATCCAAGATTAAGGTGCTGGCAGATTCAATGTCTAGTGAGGGCACTCCTCTTGGTTTGCA
GGTGGGTGTCTTCTTGTTATATCCTTACATCGTGGATAACAGAGAGAGGAAGCAGGATTTCTTATTTCTTCTTATAAGG
GTATTAATCCCATTTATTAGGACTCTGCCTTCATTACCTAATTACCTCCCAAAGGCCCTACCTCCTAATGTCATCACAC
TAGAGGTTAGAATTTCAACATATAAATTTTGGGGGCAGAAAAACATTCATTCCCTAACATAGAGGGTGAGGAAGATGA
GAGGAAATGTCCCTTTCAGAGACTGAATTGGGAAGTAAACCACTTTGTGTAATATTGCAGTAGGTACTGCTATAGTGAG
GAATGGAGAGTGGATGGGGAGAACTCTCCTTTGGTAAGAAGAAGGAAGAAAAAGATGTAAAGTAGTGCCTATGATCCTG
ATGAATTTACTTTACTCAAACTTTCATTAACCTCTACAAACAAAAAAGAACCTGAGAAGACTTTTGTTAGTCACTTTCC
TGTGCATTGAGGAATTGTCCAGAGGGACTAGGGAAGCCCATCAGACTAATGGCAGACCTCTTAGCAGAAACTCCACAAG
CCAGAAGAGATTGAGGACCAATACTCAACATTCTTAAAAGAATTTTCAAGCAGAGAAAACTCAGGATTAAGAAACTCAC
TCAAAATCCACACAATTTCATGGAAATTGAACAACCTGCTCCTGAATGACTCCTGGTTCAATAATGAAATTAAGGCAGA
AATCCAGAAGTTCTTTGAAACCAATGAGAACAAAGAGACAACATACCAGAATCTCTGGGACACAGTTAAAGCAGTATTA
AGAGGGAAATTTATAGCACTAAATGCCCACATAAGAAAGCTGGAAATATCTCAAATCGACACCCTAATATCACAATTAA
AAAGAGCTAGAGAGGCAAGAGCAAACTAATCCAAAAGCTAGCCGAAAACAAGAAATAACTAAGATCAGAGAAGAATTGA
AGGAGATAGAGACATGAAAAACTCTCCAAAAAAATCAACAAATCCAGGAGCTGTTTTTTTTTTTTGAAAAAACTAACAA
AATAGATAGACCACTAGCTAGATTAATAAAGAAGAAGAGAGAGAAGAATCAAATAGATGCAATAAAAAATGATAAAAGG
GATATATATCATCACTAATCCCACAGAAATACAAACTACCATCAGAGAATACTATAAACACTTCTATGCAAATACACTA
GAAAATCTAGAAGAAATGGATAAACTCCTGAACACATACACCCTACCAAGACAAAACCAGGAAGAAGTCAAATTCCTGA
ATAGGCCAATAGCAGTCTCTAAAATGGAGGCAGTAATTAATGGCCTACCAACCAAAAAAATCCTAGGACCAGACTGATT
CCCAGCTGAATTCTACCAGAAATACAAAGAGGAACTGGTACCATTCCTTCTGAAGCTATTCCAAACAATTGAAAAGGAG
GGACTCCTCCCTAACTCATTTTATGAAGCCAGCATCATCCTGATACCAAAACTGGTAAGAGACACAACAAAAAAGGAAA
ACTTCAGGCCAATATCCCTGATGAACATCCATGCGAAAATCCTCATAAAATACTGGCAAACCAAATCCAGCAGTGTATC
AWAAAACTTATTCATCATGATCAAGCCAGCTTCATCCCTGAGTTGCAAGGCTGGTTCAACATATGAAAATCAATACATG
TAATCCATGACATAAACACAACCAAAGACAAGAACCACATGATTATCTCAATAGATGCAGAAAAGGCTTTAATAAAATT

Fig. 6.UG

CAACATCCCTTCATGTTAAAAACTCACAATAAACTAGGTATTGATGGAACATTTCTCAAAATAATGAGAGTTAATTATG
ATAAACCCACAGCCAATGTCATATTGAATGGGCAAAACCTGGAAGCATTCCATTTGAAAACTGGTACAAGACAAGGATG
CCCTCTCTCACCACTCCTATTCTACATTGTATTGGAAGTTCTGACCAGGGCAATCAGGCAAGAGAAAGAAAGAAAGGGT
GATCAAATAGGAAGAGAGAAAGTCAAATTGTCTCTGTTTGTAGACAACATGATTTTATATTTAGCAAACACCATCATCT
CAGCCCCAAAATTTCTTAACTGATAAGCAGTTTCAGCAAAGTCTCAAGATACAGAATCAATGTACAAAAATCACAAGCA
TTCTTTTACAGCAATAATAGGAAAGCAAAGCAGAAAGCCAAATCATGAATGAACTCCCATTCATAATCACTACAARGAG
AGTAAAATACCTAGGAATAGAGCTAACAAGGGATGTGAAGGACCTCTTCAAGGAGAACTATAAGCCACTGCTCAAGGAA
ATAAGAGAGGACACAAACAAATGGAAAAACATTTCATCCTCATGGATAGGAAGAATTGATGTCATGAAAATGACCATAC
TGCCCAAAGTAATTTATAAATTCAGAGCTATGCCCATCAAACTATCATTGACATTCTTCACAGAATTAGAAAAGACTAT
TTTAAGTTTCATATGGATTCAAATAAGACTTTGGATGGCCAAAACAATCCCAAGCAAAAAAAGCAAAGCTGGAGGCAGC
AGGCTACCTGACTTCAAACTATACTGCAAGGCTACAGTAACCAAAACAGCATGGTGCTGGTACTGAAACAGACAAATAG
ACCAATGGAGCAGAACAGAGATCTCAGAAATAACACTACACATCTACAACCATTTGATCTTTGACAAACCTGACAAAAA
CAAGCAGTGGAGAAAAGATCTCTTATTCAGTAAATGGTGGTGGGAGAACTGGCTAGCCAAATGCAGAAAACAGAAACTG
GACCCCTTCTTTATACCTTATACAAAATTTAACTCAAGATGGATTAAAGACTTAAATGTAAAACCCAAAACAATAAAAA
CAGTAGAAGAAAACCTAGGCAATACTATTCAGGACATAGGCCTGGGCAAAGACTTCATGACAAAAACACCAAAGGCAAT
TGCAACAAAAGCCAAAATTGACAAATAGGATCTAATTAAACTAAAGAGCTTCTGCACAGCAAAAGAAGCTGTCATCAGA
GTGAACCTACAGAATGGGAGAAAATTTTTCCTATCTGCCTATCTGACAAAGGTCTAATGCCCAGAATTTACAAGTAACT
TAAACATATTTATAAGAAAAAAACAACTCCATCAAAAAGTAGGCAAAGGATATGAACAGACACTTCTCAAAAGAAGATA
TTTACATGGCCAGCAAACATATGAAAAAAGCTCAATGTCATGGATCATCAGAGAAATGCAAATCAAAACCACTATGAGA
TACCATCTCATGCCAATCAGAACGACAATTATTAAAAAGTCAGGAAATGACAGATGCTGGCAAGGTTGTGGAGAAATAG
GAATGCTTTTACATTGTTGGTGGAAATGTAAATTAGTTCAACCATTGTGGAAGACAGTATGGCAATTCCTCAAGGATCT
AGAACCAGAAATACTATTTGACCCAGCAATCCCATTACTTAGTACATACCCAAGGGAATATAAATAATTCTACTACAAA
GATACATGCACTTGTATGTTTATTGCAGCACTATTTACAATAGCAAAGACATGGAACCAAACCAAATGCCCATCAATGA
TAGACTGGTTAAAGAAAATGTAGTACATATACACCATAGAATACTATGCAGCCATTAAAAGGAATGAGACCATATCCTT
TGCAGGAACATGGATGAAGCTGGAAGCCATCATCCTCAGAAACTAACACTGGAACAGAAAACTGAACACCACTTATTCT
CACCCATAAGTGGGGGTTGAACATTGAGAACACATGGACACAGAGAGGGAACAACACACACCAGGGCCTGTTCTGGGGA
GGGGATTGAGTGGAGGGAACTTAGAGGATGGTCAATAGGTGCAGAAAACCACCATAGCACACATATACCTATGTAACAA
ACCTGTATGTTCTGAGCATATATCCCGTTTTTTTACAAGAAATAAAAATAAAGAAAAAAAAGAAAATCTCTTGCAACC
AATGAAAATGAAAACAAAATATACCAAAACATATGGGATACAACTAAAGCATTGCTAAGAGGGAATTTCATAGTGATAA
ATACCTATATTAGAAAAGAAGAGAGGATTTTAATTTAGCAGACTCACCTAGAGAGCACAACTCTGATTTTGTTGAGAAA
GCCTATCTCCACAGAACCTAAAACACACAAACTTTCAAGGTAGGGGAGATTGGAATCCAAGAAGAATGCAAAAACATTT
TGCAAGCTGGTAAGTCTCTGGACTGGAGAATATCTGGATCAGGAAGGAGGCAAGATGGTCGACTAGATGCAGCCAGAAG
GAACATCTCCCACCAAAGGACTGGGACATCAGAAAGACTGGCACACTCCTAGCAGATCTTCACAGGGAAGGCACTGAGG
GCAGATAGAGGGAAGACACAGATGCTGGGCTGCAGAGGGAGGAAGCTGGGAACCCTGAGCAATGCTAGTGCACACCAGG
ACCGGTTCCTGGTCCCCAAGAACTCCTGGGGATGGGGTGAATTGAACAGGCCAGGAGCGATCCACTCTCGCATGGATCT
CTGGAATCCTGGCATGGGGAAATCCTTTAACCACCATGGACATTTGAATTGGCAGAGAGAGCTGCTTAGAGAAGTGGAA
GGGACAGAAGTCCAGCCAGTGCAGAGCCCAAAGGGTTTGGAGTGGGAGCACCTATAGTGGAGCATGGCCAGGGACACCC
ATCTCCCTAAGCTAGACTTGTTTCCATAGGAGACTGTAGCCCTAGGGGAACTGTCACCTGAACTCTGCAGGGAGGTCYT
GCCCATGAAATGGCAGTCCACCTTGAGTACCCCCTTGGTCTGCTGGCCTCTCCAGGGGCCCCAGCCTGGCTGCAGGTGC
TTGCAGTGCAGTCCCCAGGTAGCTCGTGGGGGCCTGCATTACAGCTCCTGTTCTAGTGGGTCAGGCCTGACTGGCAGAG
TGCTCCAGCATAGCAGTCCCTGCAGACACCAGCATGCTTGTGGCCTCCCACAACTGCAGCGTCCCCCATGCTACTTGGC
CTTCACATACTCACCAATGGCCACCCCCACATTGCTTTGCCACCATGTATTTGCATGGGCAGACTTTGCCTTCCTTACC
CCACCAGGATATGTGCATGCATGCATCCTACCATACCGCTGCTGCCTGCATGAGTGCACCTTGTTGCCAACACCCCACT
AAACCACCATTGTTGTTAGAGCACTGGGTGGCACAGAGCCCACCAGCCCTGCCTTTGCCAGCATTCTGCTCTGGCACCA
ACACTTCCAGCAATGTGAAACTGGACACAGAGAACAGCAGAGTCACCCCTGCCTTGAGCAGCCACCACTGCCTGCATGA
AAACACACAGAGGGTCCACAGTCTTGTGTCCATCAGCACTTCAACCCCATGCTAATACCACCACCAGCACGAATGCACA
CACAGTCACTGGTGGGGGTCCCCGCCCCCAAGCCATGTCGCCATGTGGCCACCACTGCTGCTGTGAATGCCCACACAGA
GGCCAGAACCCCAGCACCTGCTAGCACACTGCCACATCCAACAAGCATGCACCCTGCTGTGTTGCCACTGTCACTGCTG
CTGGCACATGCAAATGAGAACAGATTCTGCTGCCTCTGCCCTATGAAGCTCTTTGTCTGGCACTACCCATCAGAGTGTT
GTGACCAACAGTCCAGAAGTAACTCAGCCCCTCCAGTGCAGCAGGTTCCTAACCTTGAGGAGCCAGAAAACAAAGTTGG
GAACTGATACCAGTCCCCCAGGGTTAGAGCACACAGTCCACGAGTCCTGAGTTGAGTCTTGGTCCCCTAAAATCTTCCA
GAAATTGAGCCAGTCAACTGAACCCACCTTATACCACCATGAAACACCCAAGGTCATGAAATAGAACAAAAGAAAAAAA
TCCAAAGGACAGTAATTTCAAAGATTGGAGGAACAGGCCAGGCGTGGTGGCTCACACCTGTAATCCCAGCACTTTGGGA
GGCCGAGGTGGGTGGATCACGAGGTCAAGATATCAAGACCACCCTGGCCAACATGGTGAAACCCCATCTCTACTAAAAA
TACAGAAAACTAGCCGGGCATGGCAGTGGGCGCCTGTAGTCCCAGCTACTCGGGAGGCTGAGGCAGGAGAATGGCGTGA
ACACGGGAGACGGAGCTTGCAGTGAGCCGAGACTGCACCACTGCACTCCAGACTGGGCAACAGAGCGAGACTCCATCTC
AAAAAAAAAAAATTCGAAAAAGATTGGAGGAACATCAGACCACAAAGATGAGAAAAAACCAGTGTAGGAACTCTAAGAA
CTCAAAAAGCCTGAGTGTCTTCTTTCCTCCAAATGATCATACTAGTTCTCCAGTAAGAGTTCTTAACTGGGCTGAGGTG
GCTGATATGACAGAAATAAAATTCAAAATATATATAGAAATGAAGATCATCAAGATTCAGAAGAATGTTGAAACCAATC
TGAGGAAGCTAGGAATCACAATAAAATAGTACAGAAGCTGACAAACAAAACACTCAGTATAGAAAAGAGTGTAACCAAC

Fig. 6.117

CTGATAGAGCTGAAAAAACACAGTACAAAAATTTCATAATTTAATTGTAAGTATTAACAGCAGAATAGACCAACCTGAG
GAAAGAATCTTAGAGCTTGAAGACTGGCTTTCTGAAATAAAATAGTCAGACAAGAATAAAGAAAAAATAATAAAAAGGA
ACAAACAAAACCTCCAAGAAATAAGATATTATGTAAAGAGACCAAATCTATGACTCATTGGCATCCCTGAAAGAGATGG
AGAGAATGGAAGAAACTTGGAAAACATATTTCAGAATATCATCCATGAGAACTTCCCCAACCTAGCTAGTGAGGCCAGC
ATTTAAATTCAGAAATGCAGAGAACCCCCATAAGAGACTTCACAAGAAGATCATCCCCAAGACAGACAATCATCAGATT
CTCCAAGGTTGAAATGATAGAAAAAATGTTAAAGGTAGCTATAGAGAAAGGACAGGCCACCTACAAAGGGAAGTCCTTC
TGACACAGCAGACCTCTCAGCGGAAACTCTACCAGCCAGAGAGATTGGGGGACTATATTAAACATTCTTCAAAAAAAGA
TATTCCAACTGAGAATTTGATATCTGCCCAAACTAAGTGTCATAAGCAAAGAAGAAATAAGATCCTTTTCAGACAAACA
AATGCTGAGGGAATTCCTTATCATAGACCTGCCTTACAAGAACCCCTGAAAGAAGCACTAAATATGAAAAGGAAAGACC
GTTATCAGACACTGCAAATACACAGTGTCTCTATAAGTACACAGACCAGTGACTCTATAAAGCAACCACACAAACAAGT
CTGCATAGTAACCACCTAACAACATGATGACAGGATCAAACCCATACAAATTAATACCAACCTTCAAGGTAAATGTCCT
AAATGCTCCCAATTAAAAGGCACAGAGTGGCAAGCTAAATAAAGAAGAATGACCCAATGGTATGCTGTCTTCAAGAGAC
CCATCTCATATGCGGTGACACCCATAGGCTCAAAATAAAGAGATGCAGAAAAATCTACCAAAAAATGCAAAACAGAAAA
AAACAGGGGTTGCAATCCTAATTTCAGACAAAACAGACTTTAAACTAACGAAGCTCAAAAAAGATGAAGAAGGATATTA
TGTAATGGTAAAGGTTTTAATTCAACAAGAAAAGCTGACTATCCTAAATAGGTACATACCCAACAGAGGAGCACCCAGA
TTTATAAAGCAAGTTTTTAGAGATCTTCAAAGAGAATTGGACTTCCACACAGTAATAGTGGGAGACTTCAACACCCCAC
TGACAGTATTAGATCATTGAGGCAGAAAATTCACAAAGATATTCAGGACTTGAACTCAACACTGGACCAAATGGACCTA
ATAGACATCTACATATCTCTCCACCCAAAAACAACAGAATATGTATTCTTCTCATCACCAAATGGCACACACTCTAGAG
TTGATCACATAATCAGACTTTAGACAATCCTAAGCAAAAGAAACAAAGTCATATTGAACCACAGTGCAATAAAATTAGA
AATCAAGACTAAGAAAATTGCTCAGAACCATACAGTTACATGGAAACTAAACAACCCACTTTTGAATGCCTTTTAGGTA
AATAATGAAATTAAAGCAGAAATCAAGAAGTTCCCAGAAACTAATGAGAACAAAGATAAAATATACCAGAATCTCTGGG
ACACAGCTAAGGCAATGTTAACCAGGAAATTTATAGCACTAAATGCTCACATCAAAAAGTTAGAAAGATTTAAAATAAA
CAACCTAACATCACAACTAAATGAACTAGAGAAGCAAGAGTAAACCAACCCCAAAACTATCAGAAGACAGTAAATAACC
AGAATCAGAGCTGAATTGAAGGAAATTGAGACATGAAAAGCCATTCAAAAGATCAATGTATCCAGGGGCTGTGTTTTTG
AAAAATTAATAAGACAGATGGACTGCTAGCTAGACTAATAAAGAAGAAGAGAGAAGATCCAAATAAACACAATTTTAAA
AATAAGATAGTAATTACCACTGACCCCAGAAAAAATACAAATAACCATCAGAGACTACTATGATGGTTTGTGTACTATGC
ACACAAACTAGAAAATCTAGAAAAAATTGATAAATCCCTGGACATATATACACTCTCTCAGACTGAACCAGGAAGAAATTGA
ATCCCTAAGCAGACCAATAACGAACTGTGAAATTGGATCAGTAAATTTATCAGTAAATAGCCTACCAAACAAAAGAAGT
CCAGGACCATTCATATCACAGCCAAATTCTAGTAGATATACAAAGAAGAGCTGGAATCATTCTTATTGAAACTATTCCA
AAAAATTAAGGAGGAGGGACTCCTCCCCAGCACATTCTATGAGGCCAGCATCATCCTGATTTAAAAAAAAAAAAAACAC
CTGGCAAACACATAGAAAATAAAACTTCAGGCTAGCATTCTTGATGAACATGCATACAATAATCTTCAACAAAATATTA
GCAAAATGAATCCAGGAGCACATCGAAAAACTAATCCACCACAATAAATTGGCTTTACCCATGGGAGGCAAGGTTGGTT
CAACATACACAAATCAATAAATGTGATTCATCACATAAACAGGACCAATGCAAAACCCACATGATTATTGTAATAGATG
CACAAAGGCTTTTGATAAAATTCATCACCTCTTCATGTTAAAAACCCTCAACCACCTAGGTACTGAAGGAACGTACCTC
AGAAAAAATAAGAGTTATCTATGACAAATCCACAGCCAACATCATACTGAATGGGCAAAAGCTTGAAGCATTCCACTTGA
AAACCAGCACAAGACAAAGACGCCCCTTTCTCACCACTCCTATTCAACATAGTATTTTAAGTCCTGGCCAGAGCTATCAG
GCAAGAGAAAGAAATAAACAGCAAGGCAATACCAAACAGCCAAGGCAATACTAAGCAAGGAGAACAAAAAAGAACAAAT
CTGGAGGCATCACACTACCTGATTTCAAACTATTCTACAGGGATACGGTATCCAAAACAGCATGATTCTGGTATAAAAA
CAGAAACATGACCAGTGAAACAGAATAGAGAGCCCTGAAATAAGGCTGCACACCTACAACCATCTGATCTTAGACAAAG
CAAAGGGGAAAGGACTCCCTATTCAATAAATGATGCTGAGAAAACTGGCTAGCGATATGCAGGAGATTGAAACTGGACC
CATTCAGTACACTATACATAAAAATTAACTCAAGATGGGTTAGAGACTTAAACGTAAAACTCAAAGCTATAAAAGCTCT
GGAAGACAACCTAAGCAATACCATTCCAGACATAGGAACTGGCAAAGATTTTATGATGTAGATACCTAAAGCAATTGCA
ACAAAAGCAAAAAAAATGATAAATGGGATCTAATTAAATACAGAGCTTCCTCACAGCAAAAGAAACTACCAACAGAGAAA
ATAGACAACCTACAGAATGGGAGAAAATATTTGCAAACTATGCATCTGACAAAGTTCTTATATCCAGCATCTATAAGGA
ACTTAAATTTATAAGAATTAAACAACCCCATTAAAAAGTGGGCAAAGGACGTGAACAGACACTTTGCAAAAAAAGTACG
TGCAGCTAACAAGCATATGAAAAAAACTCAGTATCACTGATCATTAGAGCAATGCAAGTCAAAACCACGAGATGCCATC
TCACATCAGTCAGAATGGCTATTATTAAAAAGTCAGAAAATAACAGATACTGGTGAGCTTGTGGAGAAAAGGAAATATT
TATACACTGTTGGTGGGAATGTAAATTAGTTAAACTATTGTAGAAAGTAGTGTGGCAATTCCTCAAAGAGCTAAAAACA
GAACTACCTGTCAACCCAGCAGTCCCATTACTGGATGTATACGCAAGGGAATAGAAACTGTTTCATCATAAAGACACAT
GCTCACATATGTTCACTGCAGTACTATTCACAACAGCAAAGACATGGAATCAATCTAAATGCCTATCAATGGTAAACTG
AGTAAATAAATTGTGGCACATATACTCCATGGCATACTATGCAGCCATAAAAAGGAATGAGATCGTGTCCTTTGCGGGA
ACATGGATAGAGCTGGAGGCTGTTATCTTTAGCAAACTAATGCAGGAACAGAAAATGAAATACTGCATTTTCTAACTTA
TAAGTGGGAGCTAAATGATGAGAAGACATGGACACAAAGATGGAAACTAGGCTTAGCAACTGGGTGACAAAATAATCTG
TACAACAAACTCCCATGACACAAGCTTACTTATATAACAAACTTGCACATGTATCTCTGAACCTAAAATAAATGTCTTT
TTAATATCTGGATCCAAATTGTTTTACTGGCCAATGGAAAAAGATTTTTTGCCCAGATGGCTAAATCTTTTGAATAATA
TTTGTGAAAAAGACTTTTAAGATTTTTGAATAATATTTGTGAAAAAGACTTTTAATAATATTAGTGAAAAAGACTTCCT
TACAGAAGGCAAATTAAGTCTTAATTTAATTTGGCAGCTTTTAATGTGGCAATCTTTGATTCTTTATTCTTTTAGATGG
CTGTGTGCACCAATTAAAGAATGCATCCCATTTGCTAAAGAAATTAAAATTTAAAAGAAAAAAATCTTAAACAATTTAA
TACTACATCTCAAGGAAGTAGAACAATAACAACAGACTAAGGCCAAATTAGGCAGAAAGAGGGAATTAACAAAGATTTG
AGCAGAAATACATGAAACGGAAAATTCAAAAATAATAGAAAAAAATAAGACAACTAGGAATTGGTTTTACTGGTTTTTT

Fig. 6.118

ATAAATATAAACTAAATTGGTAAAACCTTAAGTAAACTAACTAGCAAAAAAAGAGCGATGCCTCAAATAAAAAAATCAG
AAATGAAAGAAGAGAAATCACAAATGATGCCACAAAAATAAGAAAGAATCAAAAGAGATAACTATGAACAATTATGTGCC
AACAAACTGGATAAGCTAGAAGAAATGAATAAATTCCTAGAAACATACAATCAACCGAGACTGGATTCTGAGGAAGCAG
AAAGTCCGAACAGACCTATAACTAGTATAGATATTGAAATAGTTATTACAAAGCTCCCAGGAAGGAAAAGCCCAGTACC
AGGTGGCTTCACTGGTGAATTCTAACAAACGTTTAAAGAAAAATTTATACCATTTCTTCTAAAACTTTTCAAAAAAAT
TGAAGGGGAGAGGGAACATGTCCAAATTCATTACTCTGATACTAAAGTCAGACAAAAGCACCACAAGAAAACAAAACTA
TAGGCCAATATCCCTGAAGAATGAACATACAAATTCCTCAACTAAACCCCAGCAAACTGAATCCAAGAGCACATTAAGG
GGATTATACACCATGACCAAATGGGATTTGTACTTGGGATGTTAGAATGGTTCAGTGTGTAAAAATTAACGTGAAATTC
CACATTAACAAAATAAAGCATAAAAACATGTGATCATCTCAAGATACAGAAAAAGGGTTTGACAAAATTTAACATCTTT
TAATTAAAAACTCAAACTAGTAATAGATTATGTCAAATACAAATACAAATATTATATACCTCAACATAATAAAAGCCAT
ATATTAAATGCCCATCACTAACGTCATACTCAATGGTGAAAAACCGAATGAAGGCTTTTCCTCTAAGATTAGAAACAAG
ACAAGGATGCCCACTTTCACTGCTTCTATTCAGCAGGATACTTGAAGCCCTATCTAGAGCAATTGGGTAAGAAAAAAAG
TAAAAAGGCATTTAAATTGGGAAGGAAGAAATAAAATTTTCCCTGTTTGCAGGTAACATGATCCTATATATAGAGAAAA
CTCTGAAGATTCAATTAAGAAACTGTTAGAACTAACAAATGAATTTAGTGAAATTACAGAGTACAAAATCAACATACCA
GAATCAGTTGCATTTCTATACACTAACAACAAACTATCTGAAAGGAAATTAAGAAAACAATGCCCATCTAAACTAGTGC
CAAAAAGAATAAAATAATTTAGTAATACACCTAAACCTAACTAACAAGGTGAAAGATTTGTGTATTAAAAACTACAAAA
CATTGATGAAAGATACTAAGCAAATCAAAAGACATTGAATGTTCATGAACTAGAAGACTTAACATTGTTAAAATATCCA
TACTACCAAAAGAAATCTACAGATTCAATGCAATCCCTATCCAAATCTCAATGTCATTTTTTACAGAAAGTGAAAAAAA
GCTCTAAAATTTATATGGAGCCATGAGTCAAGAAATAACCAAATCAATCTTGAAAAAAAGAATAAAGCTAGAGACATCA
CATTTCCTGATCTCTAGATATGTTACAAAACCACAGAGATCAAAACAATATGATACTGGCATTAAAACAGACATATAGA
CCAATGGAACATAAGAGAATCCAGAAATAAATCTATGCATACTTGGTTGTTTTATTCTATTCGGGCTACTATAATAAAA
TACCATAAACTGGGTAGCTTATAACAACAGAAATATATTTCTCACAGTTCCAGAAGTTTGGAATTCCAAAATTGAGGCA
CAGGTACTGATGGACTGCTTCCTCATAGTTAGTGCCTTCTCACTGTGTCTCACATGGTGGAAAGGTGAAGCATTCCTCT
CAGATGTCTTTTATTCATGAAGTCTCCACTTTTATGACCTAATCATCTCTGTAAGTCCCCGTCTCCTAATGCCATTCAA
CATATAGATTTAGGGAGACAAAGATTCAACATATGGATTTTGGGTGACACCAACATTCAGTCTATAGCAACAGTCAACT
GACGTTTGATAAAGGTGTCAAGAATACACATAGAGATTGGAGAGTCTCTTCAACAAATGGTACTTGGAAAACTGGATAT
CCATATTAAGGAATGAAACTGGATGCTTGTCTTACATCATATGCAAAAATCAACTTGAAGTGGCTTAAAGATTAAACAT
AGACCAAGACTATAAAACTACTAGAAGAAAACCTTCATGACATTGGTCTTGGCAATGGTTTCATGGATATGACATCAAA
AGCACAGGCAACAAAAACAAAAGTAAACAAATAAGAATACATCAAACTAAAAAGCTTGTGGGTGAATTGTTTGAGCTCA
GGAGTTCGAGGCCAGCCTGGGCAACATAGTGAAACCTTGTCTCTACAAAAAATTAAAGAAAAAATTAGCTGGATATGGT
AGGCTCACACCTGTAGTACCAGCCACTTGGGAGGCTGAGGTAGGAGGATTGCTTGCACCTGGGAGGTGCCAGAGGTTGC
AGTGAGCTGAAATTGGGCCACTGTACTCCAGCCTGAGTGACAGATCCAGACCCTATTGCAAATAATAGTAATAATAATA
ATTAATAAAATAATGATATGAATCAACAGAGTGAAAAGGACACTTACAGAATGGGGGGAATATTTGCAAACCGTATATC
TGATAAAGGGTTAGTATCCAAAATATCTAAAATAAACCCCTTCAGGTTATTAGTTAAAATAAAGAGAGAGAAAAATAA
ATAAATAAATAAATAACCTGATTTAAACATGGGCTATGGACTTGGATAGACATTTCTTCAAAGAAGACATACAAATGGC
CAACAGATATTTTAAGAAATACTCAGTGTCACTAATCATCCAGGAAATGTGAATTAAAACTATAATGAAATATCACTTA
ACACCTACTATAGTAGAATGGCTACTGTTAAAAAAAACAGAAAATAGCAAGTGTTGACGAGGATGTACAGAAATTGGAA
CCCTTGCACACTGTTGGTGGAAATGCAATATGGTGCAGCTTTTGTGGGAAACAAATGAAGTTCCTCTAAACATTTAAAA
ATGCAATTACATGATCCAGCAATCCCACTTTGGGGTGTTTATTCAAAAGAATTGAAATCAGGATCTCAAAGATGTATTA
GCACTCCTATATTCATTGTAGGATTATTCACAATAGTTAAGATTTAGAAACAACTTAAGTGTCTATTGACAGATGAATA
GATGAGAAAATATGGTATATAAATAGTGGACTATTATTCAGCCTTAAAAAAGCAGGAACTATTGCCGTATGTGACAACA
ACATGGATGAAACTTAAAGACATTGTGCTAAGTGAAATACATGAGTCATAGAAAGACACATATTGCATGATTCCACTTA
TATGAGTTATCTAAAATAGTCAAATTCATAGAATCAAAGAGTTGGATTGTGGTTACCAGTGGGTGGAGGTAGAGAGAAG
GTAGAGAGAAATGGGGAGTTACTAAACAATGGGCGTAAAGTTTCAGTCAAGAAAGATGAATAAGTTCTAGGGATCTGTT
ATACAACATTGTACCTATAGTCAACAATAATGTATTGTACACATATGCATTTGTTAAGAAAGTAGTTTTGTGTTTAATG
TTTTTAGCACAATTTTTTAAAATAAAAAGACAGTGGTATTCTAATTTTCCTTTCTTTTCTTAAACTCAATTAGAATTTC
TAAATTTGGGGCATGTTCTTACATTTATAGGTAACAGTTCATTTATTATTTTGAGACATAGAGCAATTTATAAGGAAAT
TAAAGGGAAACTCCCTTTAATTCATCTTCCTTCCTGATATTCAAGAACATAGACTGAGCTTTCCTCTATCTCTTTCAGT
TCTAGTTTATATTTGCAAAGGTGTGTCTGGGCCAGTCCAATCTTTCTTCCTACTGTTCTCATCTACCATATCAATTTAC
ATTACAGATCACATGCCGAACTTTAGGGGAGAGGACAAATTACTGGGATTAACAATGAAAGATATAGAACTGCTCAGGA
TATTTTCTAGGTTTAGGAGACTTGAGGAAAATGAATAAGTGAAATGTAGACATATATGAATGAATATATCAAACATCAG
AGGAGAAAATTTAGCTGTGTCCAGAGAGGACAGAGATGCTATCTTTCTATTGCTTGTTTTTGAACTTTCTTTCGTATTT
TATTATTGTATTGTTAATAATCATTGAAGTAGTGTGAGAAATTTCAGAGAAGTAGAAGTAGAGCAGTTTCTCTGAAAAA
CTTATAGATGGTGACAGATGACCACATAATTGTGTGACAGTAAAATGCTGTATTGAGCTTCCTGCTGTATTATAGAAAG
AACATATGAATAGATAAAAGCACAACAGTTTTCCTTTTCACTATGTCTCAGGAGAAAACAATGCACATCGGCATATATG
GAAACAAATGAGATTAGTTAAAAGAAGGAATTTAAATTATGTAGACTAAGCCAGGGTAATGCTTACGAATGAGATGACT
CATCTAATAAAAGCATCAAAGAGAAAAACTGTTGTTTCAGTTCAGATTTTCTTGGTCGTTTTCCTGAGATGATGATGAT
GATGATGATGATGATGATGATGATGATGATAATTTGCTTTAGGAAGGAGCTGCACACTACAAAATGCAACAGAGTTGAT
AATGATAAGATTAGTTGAATTAAGTAATTCTAGACCCCAAATTGATTATTTCATTTCACTTTCTAGGTCAATAGTGTAC
CTTGTTGCAATGAACTGAGTTGGTTGTAAAAAGTCTACTATCTTATCAAAAGATTGTTCAAAAACATCTCCATGTACTA

Fig. 6.119

AATACTATCAAGCAAAAATATATTGTGTATAGGGAAATACAGTATTTAAAAAAATTGGTAGAATCTACAATGAACTCAA
ACAAATTTACAAGAAAAAAACAAACAACCCCATCAAAAAGTGGGCGAAGGATATGAACAGACACTTCTCAAAAGAAGAC
ATTTATGCAGCCAAAAAACACATGAAAAAATGCTCATCATCACTGGCCGTCAGAGAAATGCAAATCAAAACCACAATGA
GATACCATCTCACACCAGTTAGAATGGCGATCATTAAAAAGTCAGGAAACAACAGGTGCTGGAGAGGATGTGGAGAAAT
AGGAACACTTTTACACTGTTGGTGGGACTATAAACTAGTTCAACCATTGTGGAAGTCAGTGTGGTGATTCCTCAGGGAT
CTAGAACTAGAAATACCATTTGACCCTGCCATCCCATTACTGGGTATATACCCAAAGGATTATAAATCATGCTGCTATA
AAGACACACGCACACGTATGTTTATAGCTGCACTATTCACAATAGCAAAGACTTGGAACCAATGTAAATGTCCAACAAC
GATAGACTGGATTAAGAAAATGTGGCACATATACACCATGGAATACTACGCAGCCATAAAACATGATGAGTTCATGTCC
TTTGTAGGGACATGGATGAAACGAAACCATCATTCTGAGCAAGCTATCGCAAGGACAAAAAACCAAACACGCATATTCT
CACTCATAGGTGGGAATTGAACAATGAGAACACATGGACACAGGAAGGGGAACATCACACTCTGGGTACTGTTGTGGGG
TCGGGGGAGCGGGGAGGGATAGCATTAGGAGATATACCTAATGCTAAATGATGAGTTAATGGGTACAGCATACCAGCAT
GGCACATGTATACATATGTAACTAACCTGCACATTGTACACATGTACCCTAAAACTTAGAGTATAATAATAATAATGAT
AATAAATTGGTAACTAGTTTAAGGTCATGTAACCTACTCACACAAATAATCACAATAAGATGTAATATAGAATGTGCAT
GTAAAACATAAATTTTATACATAAAATAAATAATAGATCATAGCCCTGATGCATGCGTGCACAAACACACACACACACA
CACACACACGACACACACACTTGCACTATATTTGCAATAGCCTAGCTACTAAGGAATCTGATTAAACATAGATTCTATC
TTGCATATCCGATTTCTTAATAGCAGAATTAAGAGCTTCTTGGAAGAAAAGGCTTATACTCAAAATCTGCTTTTCTGAA
TCCTTTTGAGTTGAGCACAAAAGGAAACCAAAAAGACCCAAGAATAGCAATGCAATGTGTGTATTGAAGGTTTGTTAGG
AATTATTCACTATTGTATTTCTTTTCTGTCCTACATTACAGCATAGGCTTTGCCTAGAGGCAAAAGAATTAAGAATTAC
TTGCAGTTCCTACTCTTTTGCAGTCAAGGCAGTAATAGGGTGATGGATAAGGTGTATAGAACAGCAGTTCTCACCAAAT
GCCCTTGAAAAATCAAGCAAATAGATGGCTTCACATTTCATTATCTAACCCCGATATGGCCTGACATTTATACTGGGAG
CAGAGATGCCAATATAACTGAAGGGTTTTGAAATGGCCCTTTGAGGAAAGGTGATGAGGTATCCATTGATTTAATCTAA
GAGGAGATGGAGAAATAATACAAGAGGGACTTGATTTCACATGCAACTTGTTTAGGAGACCGCATCTCAACAGTTTTTG
AATGGCATATTTCTAGCTGTTCATGTGGCTTTATGCTGATAGTGTCAGTCAAATGAACAAGCTTGAAGTTTTTAATCAG
AAAATATTACATTTTATAAGTGGAAGGGTGCAAAATAAGAAGATTGCAAAGTAGCGCTGCCTGCACCTATCATTAATGC
TGTGTGGATTTTTTTCTAATTGAAAACAGCACAACGAGAGCTCTGAGTATGAGATGTAGTTATACAAAAAGGCATAAGA
TGCTAGACACCTTCAAATACTGGGTGTTCTCCTTACTAGCCATATGACCTTAAGCAATGTATTTAACCTATTCTTTGTT
CTCATTTTCCTCATTCATAAAATATGCACAATAAAACTTACCTTATAGTTTTGTTTCAAATATAAAATGAATAAATATT
GTTAAATTATTTCGAGCATTCTTTGGTACACAGTAAACCCTCCGTAAGTATTAACTTTTATGGATAAAAACTTTTAAAA
AATGGAAATAGATTTATTATTTTTATCTGATTATGAAAATTATATGTGATTATTATTTAAAAGATTTTAAAGAAAGATG
CAAAGAGAAAAAATTACTTAAAATCAATTTGTCCTCAGATAACTATAGTGAACATTTAGGTATCATAGTTCCAGGAAGA
CTTTTGTGTTCAAAAGATGCATAATGTATACAATTGTGTCATGGGCACATCTCCTCGGGCCAATCTATGGCTGACCCCT
ACTCCATCCTACCCCTAAAGTAAACATGCATTTTGACCTGTATCACTGTCATCTGTCAAAATCCATGCTCCTCAAAGGC
AGTATCTTCTGTAAACCCTCAATCTTTTTATTACTATCTAGATTCTCAGGCTTAATTGTTCCAAATTATGCCAGCCATC
ACCTCCATGCAAATCTCACTTACCTACCTCTTTATCCATCAAAAATAATCTATTAAAATCAGTTATACTTACTTATTTA
GCACTTAAATATTTTAGACTTTGTGCTAAGTGCCTCACATATAGCATTTTTACTCTTCCAGATAGCTTTCAAGGGAGCT
TTCATAACAACCATTTTAGCATTGTTTCGATCTCATTCTCAATCTCCATCTCTTTCAAACTATAAACTAAATTTCTCCC
TTGGCAAGGTTGGCCTACACCCAGGAACAAGCAAGGAAAGCCACCCTCTGAGGCTAGAAGCAAGATGGAGTCAGCCATG
CTAGCCTTCTCTCATTGTTATAATCTTTGCAAAGCTGGTTTCATATTTTACTAATCTTTCTCTGTTAAATGGACAAACA
TCCTTCTTGATGCTACTTCACACACCTTTTCCAACCTCTCTGTACTTGACACAATTAGACAAAGCATTTGCTCAATAAA
TATTTATAAAGTTAAGAAAGAATCACTTTATACCTAAGAGTGGATCCTAATGTTTACATAAATATATTCCTGTATTGAG
GTTCTTCCTTTCTCCCCAATTACCAAATTCTTTCTTTCTTTTTCTTTCTCTTTTTCTTTCTTTCTTTCCTTCTTTCTTT
CTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTCTTTCTTTCTTTCTTTCTTTCTTCTTTAAGTTTTGG
GATACATATACAGAACATGCAGGTTTCTTACACAGTATATGTGTGTCACGATGATTTGCTGCACCTATCAACCCATCAC
CTGGGTTTTAAGCCCTGCATGCATTAGCTATTTGTCTTGATGCTCTCCCTCCCCTCGTGCCCCCATGACCCAACAGGCC
CTGGTGTGTGTTGTTCCCCTCCCTGTGTCCATGTGTTCCCATTGTTCAACTCCCACTTATGAGTAAGATGGATTTCTGT
TTGCTTTTCTGATCCTGTGTTAGTTTGCTGTGAATGATGGCTTCCAGCTTCATCCATGTCCCTGCAAAGGACATGAACT
CATTCCTATTTGTGGCTGTATAGTATTCTATGGTGTATATGTACCACATTTTCTTTATCCAGTCTATCATTGATGGGCA
TTTGGGTTGGTTCTATGTCTTTGCTATTGTAAATAATGCTGCAATAAACATACATATGCACGTGTCTTTATAATAGAAT
TATTTATATTCCTCTAGGTATTTACCCAGTAATGGGATTGCTGGGTCAAATGGTATTTCTGGTTCTAGATCCTTGAGGA
GTTGCCACACTGTCTTCCACAATGGTTGAACTAATTTACATTCCCACCAACAATGAAAAAGTGTTCCTCTTTCTCCACA
GCCTCTCTAGCATCTGTTGTTTCATGACTTCTTTTTAATAAGCGCCATTCTGACTGGTGTGAGATGGTATCTCATTGTG
GTTTTGATTTGCATTTCTTTAATGATCAGTGATGTTGTGCTTTTTTTTCATATGTTTGTTGCCCACATGAATGTCTTCT
TTTGAGAAGTGTCTGTTCATGTTTTTGCCCACTTTTTAATGGGTTTTCTTGTGTTTTTCTTGTAAATATGGTTAAGTTC
CTTGTAAATTATGGATGGTAGCCCTTTGTCAGATGGGTAGATTGCAAAAATGTTCTCCCATTCTGTAGATTGCCTGTTC
ACTCTGATGACAGTTTCTTTTGCTGTGCAGAAGCTCTTTAATTAGATCCCATTTGTCAATTTTAGCTTTTGTTGTGATT
GCTTTTGGTGATTCCATCATAAAATCTTTGCCCATGCCTATGTCGTGAATGGGATTGCCTAGGTTTTCTTCCAGGGTTT
TTATGGTTTTGGGTTTTACATTTAAGTCTTTAATCCATCTTGAGTTGATTTTTGTATAAGGTGTAAGGAAGGGGTCCAC
TTTCAGTCTTCTGCATATAGCTAGCCAGTTTTCCCAGCATCATTTATTAAACAGGGAATCCTTTCCCCATTGCTTGTTT
TTGTCAAGTTTGTTGAAGATCAGATGGTCTTATATCTGAGGTCTCTATTCTGTTCCACTGGTATATGTGTCTGTTTTGA
TACCTGTACCATGTTTTGGTTACTGTAGCCTTGCAGTATAGTTTGAAGTCAGGTAGTGTGATGCCTCCAGCTTTATTCT

Fig. 6.120

TTTTGCTTAGAATTGTTTTGGCTATACGGGCTCTTTTATGGCTCCATATGAATTTTAGAGTAGTTTTTTTCTAATTCTG
TGAAGAAAGTCAATGGTAGTTTGATGAGAATAGCACTTAATCTATAAACTACTTTGGGCTGTATGGCCATTTTCATGAT
ATTGATTCTTCCTATCCATGAGCATGGGATGTTTTTCCATTTGTTTGTGTCCTCTCTTATTTCCTTGAGCAGTGGTTTG
TAGTTCTCCTTGAAGAGGTCCTTCATGTCCCTTGTTAGCTGTATTCCTAGGTGTTTTATTCTCTTTGTAACAATTGTGA
ATGGGAGTTCATTCATGATTTGGCTCTCTGCTTGTCTATTGTTGGTGTAAAGAAATGCTTGTGATTTTCACACACTGAT
TTTGTATCCTGAGACTTTGCTGAAGTTGCTTATCAGCTTAAGGAGATTTGGGGCTGAGACAATGGGGTTTTCTAAATAT
AGGATCAAGTTGTCTGCAAACAGAGACAATTTGACTTTCTCTTTTCCTATTTGAATACGCTTTATTTCTTTCTCTTGCC
TGATTGCCCTGGCCAGAACATCCAATACTATGTTGAATAGGAGTGGTGAGAGAGGGCATCCTTGTCTTGGGCCAGTTTT
CAAAGGGAATGCTTCTCGCTTTTGGCCATTCAGTATGATATTGGCTGTGGGTTTGTCAGAAGTAGCTCTTATTACTTTG
GGAAATGTTCCATCAATATCTAGTTTATTGAGAGTTTTATCATGAAAGGATGTTGAATTTTGTCGAAGGCCTTTTCTGC
ATCTATCGAGATACCAATTACCAAATTCTAAGATTACATGGTGTTCTGCAGTGAATAGATCTATGCAAACCTACCCCCA
AAGTTCAAGGAAGCTGAGAGGCTGAAGAGGCTGACATATCCAGCTTCTCAGGAAAAATGAAAAAACAAAAAACATTTAA
TAGCCAGGTCCCAGGTGGCTGCAAGAGGAGATGGTGGTTCACTGCAGTGTTAGCCCCAGACCTAGGAATTATTTGCTGT
AGTGAAGGAACATGTAGGACAGTTGAAATCAACTCCTCAGGGAAAGGCAAGCATGCTATGTAAATCTGCCTAAGGGAAG
GATTTATGGTTGAGGCTGTTTTGAACAAAGGGTAGAATTTATGGTAACAGTAGGTAAAGTATAAATCTTAGAGGCATTC
CTGGAACTGGGGTAAATCAGATGTCAGTATGGTGGACTGACAATGAAGATGGAGTTGCTTTAGTCTCCACACATGGGAA
CAGATAGAAAAAGGTGTCTTTATAACCAAAATGTTGGCTTTTACAAAGCTCTGCTGTAATTCTAAATAGATGGAAGAGG
ATAAATCAAATAACTGAATTAACTTAAAAATTCCCTTTTTAGAGTAACTTCTTCAAATTTAAAAGAATTTTATCAAAGT
AGTGTGGGCATATCTACTGGGGGATGGAGAAACATAGAGCAAGAGAGAGAGAACTTTGTGATGGAAATCAAGATTTTCT
TAAATCTCTCATAGAATAATTATTAGAGTATTTATGAATTTTCTTCTCTTCTCCAAATTATCTTCACTTGGGGTTATTT
TATCTTTATTTGTGTATCTTGGACTGTCTTTTTTCAAAGCAAGCTTTCTTTAGATGCCTGATGAGCTATGATTATAATT
TTATTCAAGTTTAAGGAATGAAAAGCTGATTGGGCTCTGACTTGCACTTTGCTTTGGAGTCATGGGGCTATGAATTAAC
AGTTTTCCTGGGGGGGATCAGAACATGCCAGATGATGGAAGTCTTTTGTCTGGAGCTATTATTTTGATTTAGAAAGGTT
TTATTTTAGTGAAGTTATAAAGAATCCTCAAATATTTCTCTAAGCTGGAGAGGCCTGTCTCCTGGGTGTCCTCTTTCCT
GCAGGGTTGGATAGTGGCTATTTCTACCCATAGATACTTGTAATTGTCAGTTCCCCATGTCACTCCTGTACCCTTTCCT
GTCTTCATTGCATGTGGTGTTTTGGAATTCTTAGCCTTTCTGGAAAGGCAATTTCTCTCTCTCAGTCTGTCATATTTAT
ATCCCTTCTAGATAATCTAACCTGTGGTTGACTGTATTTCATGTGCTATCTCTTCTTTATCTGCTTTGTCATCTATACA
TCTGTTGACATATTTTGTATTCTCATGACTCTCTTTCAGTTCCTTACTACCATTAGGGTTTTGTACTTTTCTCCCCTTT
AGTGACATCTAAGATGGGAAAGATTGTAAATACATATGACCAGATTCATCAGGGAAATATATGCTATTCTAGGTAGTTC
ACACAAGATATTATGTAATACAGGTAATTAAAAGGTTACATGGTCATTCTGAGAACTTGGAGTTAGGTGATTAGAGAAG
TTGCTACTAGAATGCAAGAAACTGGGAAGTGGAAAGATCACAGACAGCTGCCAACAGTGTTCTCTGGTGCCAACAGCTT
AAAACTTAGTTCTCAGGAAAATCTCCAGTGTGTTTTGGGTTTTGCCAATTACATTATATCATGTATCCACCATTACTGT
ATCATACAGAATGGAGAAATAACATGTTTATTGAATACAGACACACACACACACACACACACACACACACACACACACATA
TGACAATGCCAAAAAAGATAGATAGAACTTCTAATTTCATTGATGTTTCTAGTTTCCTGAAGAAGCTAGAAAGAATGGT
ATGGATATCATTTTTCTGAATATATACATAAAGGTTGAAATTAATATAACTATTCAGAATTTTAAAACAATGAATAACT
GTGATATGGGATTTATTTTATTTTTAAAAAAATGAGGAAGATTTTCATGTTATGATGCTTTCATACGGTATCTCTCGTA
TGAGTGACAATACTGCCTTTTAATTTTTTCTCAAAATGTTATAGGGCAACAAGAGATTGGCAGTATGAGCTGTCTTTTT
ATTGTATTTTAATGGTAAACTTGTACATGATTATGGGGATATTCTAACTTTTATGATTTTTTAAACAACTCTCAGTTCC
ATCCCATAAAAGAGCTTTATGTAGAAATACTTTTAGCAGCTTTTAAGTTTATTTCATCTTCTCTTCCCCAGGAGACAAG
GTAAAAGTAGAGATTACATTTTCTGGAGATATTACTTTCATTTATATCTTTATAAATATGGATAGACAATTTTATAATA
ACAGTGCTAACACTGAAAAGGAAAAGAGTAAGATTTTGTAATTTATAAATAATCCTTATGGGGATGTTATTATTTAACT
CTGAAGATGTTGTTTCACTTTTCATTATTTTGGTTTCAGTCACTGCTTGCAGAATAGTAATCTCTTAGCATATGAAGTC
AGCAGATCAAATGCAAGAAACAAAACAAAACAAAAAACTCAGAACAAAATCAAGAAGGCTCAAAGTTTAGCACACTATT
TATTTCACTGTTTTTAATCATACTCAGGAAGGGTTTTAGTGAAGAAACAGGAGTGAGATTAATCAAAATAGCTCAAAAT
GCTCAAAACTTAAGTTATATATTCAGGAGGCTTTAAATTCCCACCATTTTAAAAAGTGTTCTTTAAACCTCAATTTCGG
GTACCTTGCTGTTCCTTGGGTTTGACTGAGGATCAGTATTTTCTTGCCATTTATCACACTTAAACATAGAGCATCCAGA
ATCAATAAACTACAAAGCAGAAGATTTAGAGAATCTATCTTTCCAGAATAATAGTCATACTTTCCCAAACATGTTCTAT
ACAATTTTAGGGGACTATAGACCTTTGGTATATATATCAGATGTTAAGCTTTTTGTTCCATTAACATTACTGTAGTCAG
TTGTAATGCTATGTTGTTAATCTAGAGACAGGAATATATAACTTCTATTTTCTTCAAATGAAAAATGGCTTTGGTCATA
AGTACCTATACCCAAATCTTATTTCAATATACTCTACATTAACAGCATGTTACAGATAGGAATCCAGTATTATATTTAC
ATAAATTAGTTATTTATCTCGATATTTACAGAGTGCTAGGCATTGTGCAAGTCAAATAATACATATTCACTGTCCTCAA
AAACTCAACACTAGCTAATGGGAGACCAGCATCAAAATAAAAAAATAAGAGCAATACAGTTTCTATGTGCAAGACAGA
CACAGTTCTACAGGGCTGGGGACAGAAGGCACTGAAGAGGAATGGAGAAACTGAATGAGGAAAAACTTTGGAGAGGAGG
TGTGGCTGGAGCTGAGTATTGAAATAGGAGAAATATTTGTTCAGATATTACTCTTTTTATTTTTTCATGACTGAATTCC
AGGCATACGTACCTTCAAATACCTTATTGCAGATGACCTAGAAGGCTGCATGTAAAGATAAATACATCCTAACATTTGT
ATATTGTTGCTTCTCAAATTTCACAACTGTGATTACTTGCTGTGTTGGTTACTGATCTTTATTTTCATTTACTTAGCAT
CTTCATTGATAATCCTGATTGATGTAGTTTTACTTTCATCATCTAAATATCTCTAGTTTCTAATTTATTCTGTGTAGAG
ACTTTAGTTTCATCAAATATAAGTGGGCATGAAATTATATACCTGAGCCAATAGAAGAACTCAAGACTTTTATTTGCCT
TAATGTAGGATTTAAAAACCAATTCAAAAACAATTGTTTATATATGTGGGAAAATTCCTTTAAGTTTCTGTTGATAGGT
ATTGGAATAGGTTTCCTAGTAAGATATTAAATGTGTCATCCAAATAAATTTTTAGGTTACATAAACACTGATCTTGAAT

Fig. 6.(2)

AAAATAGCTATAGTTCTACCTGGAGGTAGAGAGTCATAATAATATCAAATTAGAGCTCATGTTTGTGTGTGTATGTGTT
TGCATACTTGTGCACGTGCTGGCTTTTATGTACAAAATGGTGATCATCAAAGGTAGTTGTCA..AAAAAGTCATAGATT
ATAAAAGCTAAAAAGGACACTGTATTTTAAAGATACGGAAACCTAGGCCCAGAAAAATTAGACAGGTTGCTTAAGACTG
AGAGCAGAGCCCAGAACTTGGGCCTCTTGACTTCCCTTTGCAAATATATCATTGTGCTTTGAAATTATAGATATACGGA
ATCATAGAACAGGAAGAAACTGTATGATCATCCAGAGCTCATTGACAGCCCCTCCCTCCCCTCCACATATATGCTAATA
AACCCTCTGCTGTCTCTCTTCCACTTAAATTTGCGGGGAAATCTAGTTAGCATAAAAACACTGATCCCTGTGGCTGGCT
ATGCTTTTTTTTTGACAGATTGTCCTGCTACTGCTGCTTCCCGTCTTCCTTCATCATTCACATTATGACAGACATTTGA
GCAGAGTCTCAGTGAAAACTTGTTTGGGGGTTGGTGCCTCTGATTCTCAGTGCAGCCTGCCAGCCTCATTGGGAAAAGG
TGTTTAATATAGGCAGCGATTTTCTGTATTATGAACTGAAATAGAAAATGCTGCGATGGGTTCATTCAAGGGAGACCCA
ATATCTTACTTACAATGAAGAAATCAGGCAATTTTGGGGAGTAGAAGTGGAAGTGTGACTCATACATATATTGGTATTT
TCTTTTATGAGATTTTGATATGGCACTTAATGTTTTATGCTGAGAGGAGATGAAGATTTCTCATTTTCCTACAATTTCA
CTGAGAAAATCATACAGCAAGGACACAGAACTTCATGCAACTGCCTTCTTTTATTAGTACCTATATCTTGTCTTTCTTT
CCTTTCTTCCCTTCCTTGCTTCTCCTTTCCCTTTTGGTTTCTTTGTTAAGCCTTTTCTTCCTTCCCTTTATCCCTCCTT
ATAATTGATTTTGCTTCTTTGTGTTACTACTTTCTTTCCATGGTTCCTCCAACCTGTAGTATGAAAGAGAGTGGATATG
GTAGTGGTTAAGAGCATAGGCTCTAAAGTCAGACTGCCTGGCTTTGAATCCTCTCTACCACTTACTGACTGAGTGACCT
TGGATTGAGTCACTGAACTTCACTTTTCAATTTTTTATGTCTTATTGGATAAGTTTCAATCAGAGTTGAGGATGAAGTG
AGATATATGAAAGTGCTTAGTACAAAGCACATGTGTTGCTATCTTATAGTATGCAGTCACGACTTTCATATATATATTA
CATTTATGGTTATTCCAATATATACATTTTGTGTAGAAGGCTTAGTCTTTCAATTACAATAAGCTATTGGTATAGTTTA
GCCATCTAATGCTAATGGAAAGGAGAATGGGCTCAATTGTTCTAAACAAATTTTATAACTTACTTATCTTGGGCTTTGA
AGAAAGGTATGAGGAAATTAACCACAGAGATGTGTGCACACCTAAGAGACATTGACCCCACTTACTTTCTTTCCTTGCT
CCTTGGCTAAGACTCCTATGTAAGTGCCATTGTTGCTAGAAGTTTGAAGCTTTTGTAAGGTTTTAGTTTTTGTGATTTT
ATATCTTTTTTCAGATATTTAATTAAATTTAATATATATTTGCAATCTATAACACCATATAAATAATCATGATAAATCA
AAAGATATATTGTCTGGTCCCTGGTCTCTCGGAGCTGCCAAGGCTCCTAGCTGCTGGGAAAGCTGATGTATATGCAACT
TGGAACATAAGGCAGTGTTTATTGATGCCATTGATCTTTGTAATGGGCTACATGATTGAACCTTTTTTTTATTTCTTCT
CCTTAGTCTTTGATAATGACTTCACATCTGTAGTTATCTCTTTATATTTGTTGAGTTGCTTTTTGCTGCCTGCAGTATT
CTAGACATTTTATAATTAGAGATAAAGCTTGGAATTTCCTATGCAACATGTTTTGTATTCAGCCTGCTTTCTTCTTCCC
ACAGTTTTGGTCTGGTTTTGTTTATTAGTTTGTTTTCTGCAGGTAGAAATACCTAGGAAAGACAACATCATTTGATAAA
GTATAAAATATGCTTATTTAGGAGAGAATACTTTAAAAGGCTTATGAACTCTTGATGACTATCCTTTAGTTTATAATTA
ACTTATTTTTTTTTATTATACTTTAATTTCTGGGATACATGTGTAGAATGTGCAGGTTTGCTACATAGGTATAAACATA
CCTTGGTGGTTTGCCACACCAATCAACCCATCATCTACATTAGGTATTTCTCCTAATGCTATCCCTCCCCTAGTCTCCA
CCCACCGACAGGCCCTGGTGTGTGATGTTCCCCTCCCTGTGTCCATGTGTTCTCATTGTTCAAATCCCACTTATGAGTG
AGAACATGCGGTGTTTGGTTTTCTGTTCCTGTGTTAGCTTGCTGAGAATGATGGTTTCCAGCTTCATCCATGTCCCTGC
AAAGGACATGAACTCATCCTTTTTATGGCTGCATAGTATTCCATGGTATGTATGCCACATTTTCTTAATCCAGTCTATC
GTTGATGGGCGTTTGGGTTGGTTCCAAGTCTTTGCACTGTAAACAGTTCTGCAATAAACATACATGTGCATGTGTCTTT
ACAGTAGAATGATTTATATTTCTTTGGGTATATATCCGGTAATGGGATTGCTGGGTCAAATGGTATATCTGGTTCTAGA
TCCTTGAGGAATTGCCACACTATCTTCCACAATGGTTGAACTAATTTACACTCCCACCAACAGTGTAAAAGCATTCCTT
TTTCTCCACGTCCTCTCCAGCATCTGTTGTTTCCAGACATTTTAATTATCACCATTCTAACTGGCATGAGATGGTATCT
CATTGTGGTTTTGATTTGCATTTGTCTAATGACCAGTGGTAATGAGCTTTGTTTATATGTTTGTTGGCCGCATAAAAGT
CTTCTTTTGAGAAGTGTCTGTTCATATCCTTCGCCCACTTTTTGATGGGTTTCTTTGTTTTTTTCTTATAAATTTGTGT
AAGTTCCTTGTAGATTCTAGATGTTAGACCTTTGTCAGATGGATAGATGGCAAAAATGTTCCCTATTCTGTAGTTTGCC
TGTTCACTCTGATGATAGTTTCTTCAGCTGTGAAGAAGCTCTTTGATTAGATTCCATTTGTCAATTTTGGCTTCTGTGG
CCATTGCTTTTGGTGTTTTAGTCATGAAGTCTTTGGCCAGGCCTATGTCCATAATAGTATTGCCTAGGTTTTCTTCTAG
GGTTTTTATGGTTTTAGGTCTTATGTTTAAGTCTTTAATCCATCTTGAGTTAATTTTTGTATAAGTTGTAAGGAAGGGG
TCCAGTTTCAGTTTCCTGCATATGGTTAGCCAGTTTCCCCAACACCATTTATTAAATAGGGAATCCTTTCCCCATTGCT
TGTTTTTGTCAGGTTTGTCAAAGATCAGATGTTTTTAGATGTGTGGCATTATTTCTGAGGTCTACATTCTGTTCCATTT
GTCTATATATCTGTTTTGGTACCAGTACCATGCTGTTTTGGTTACTGTAGCCTTGCAGTATAGTTTGAAGTCAGGTAGC
ATGATGCCTCCAGCTTTGTTCTTTTTGCTTAGGATTGTCTTGGCAATGTGGGCTCTTTTTTGGTTCTGTATGAAATTTA
AAGTAGCTTTTTTCTAATTCTGTGAAGAAAGTCAGTGGTAGCTTGATGGGGATAGCATTGAATCTATAAATTACTTTGG
GTAGTATGGGCATTTTCATGATACTGATTCTTTTTATCAGTGAGCATGGAATGTTTTTCCATTTGTTTTTGTCCTCTCT
TATTTCCTTGAGCAGTGGTTTGTAGTTCTCCTTGAAGAGGTCCTTCACATCCTTTGTAAGTTGTATTCCTAGGTATTTT
ATTCTCTTTGTAGCAATTGTAAATGGGAGTTTGCTCATGATTTGGCTCTCTGTTTGTCTATTACTGATGTATAGGAATG
TTTGTGATTTTCACACATTGATTTTGTATCCTGAGACTTTGCTGAAGTTGCTTATCAGCTTAAGGAGATTTGGGCCTGA
GACAATGGGGTTTTCTAAATATATGATCATGTCATCTGCAAACAGAGACAATTTGACTTCCTCTCTTTCTATCTGAATA
TCCTTTATTTCGTTCTCTTGCCTGATTGCCCTGGCCAGAACTTCCAATACTGTGTTGAATAGGAGTGGTGAGAGAGGAC
ATCCTTGTCTTGTGCCTGTTTTCAAAGAGAATGCGTCCAGCTTTTGCCCATTTGGTATGATATTGGCTGTGGGTTTGTC
ATAAATAGCTCTTACTATTTTGAGATATGTTTCATCAATACCTAGTGTATTGAGAGTTTTTAGCATGAAGGGGTGTTGA
ATTTTATCAAAGGCCTTTTCTGCATCTATTGAGATAATCATGAGGTTTTTGTCATTGGTTCTGTTTATGTGATGGGTTA
TGTTTAATGATTTGCATATGTTGAACCAGCCTTGTATCCCAGGGATGAAGCTGACCTGATCATGGTGCGTAAGCTTTTT
GATGTGCTGCTGGATTCTGTTTGCCAGTATTTTATTGAAGATTTTTGCATAGATATTCATCAGGGATATCGGCCTGAAA
TTTTTTCGTTGTGTCTCTGCCAGGCTTTGGCTTCAGGATGATACTGGCTTCATAAAATGAGTTAGGGAGGACTCCCTCT

Fig. 6.122

TTTTCTATTGATTGGAGTAGTTTCAGAAGGAATGGTACCAGCTCCTCTTTGTACCTCTGGTAGAATTCAGTTGTGAATC
TGTCTGGTCCTGGGCCTTTTATGATTGGTAAGCTATTAATTACTGCCTCAATTCAGAACTTTGTATTGGTCTATTTAGG
GATTCAATTTCTTCCTGATTTAGTCTTGAAAGGGTGTATGTGTCCAGGAATTTATCCATTTCTTCTAGATTTTCTAGTT
TATTTGCATAGAGCTGTTCATAGTATACTCTGATAGTAATTTGTATTTCTGCGGGATCAGTGGTGATATCCCCTTTATC
ATTTTTTATTGTGTCTATTTGATTCTTCTCTCTTTTCTTCTTTATTAGTCTGGCTAGTGGTCTATCTATTTTGTTAATC
TTTTTTAAAAAAAAACAGCTCCTGGATTCATTGATTTTTTGAAGGGTTTTCATGTCTCTATCTCCTTCAATTCTGCTC
TGGTCTTAGTTGTTTCTTGTCTTCTGTTAGCTTTTGAATTTGTTTGCTCTTGCTTCTTTAGTTCTTTTAATTGTGACGT
TAGGGTGTCGATTTTAGATCATTCCTGCTTTCTCCTGTGGGCATTTGGTCCTATAAATTTCCCTGTAAACAGTACTTTA
GCTGTGTCCTAGAGATTCTGGTACATTGTATCTTTGTTCTCACTGGTTTCAAAGAACTTATTTATTTCTACCTTAATTT
CATTATTTACCCAGTAGTCATTCAGGAGCAGGTTATTCAGTTTCCATGTAGTTGTGTGGTTTTGAGTGAGTTTCTTAAT
CCTGAGTTCTAATTTGCTCTGTGGTCTGAGAGACTGTTTGTTATGATTTCTGTTCTTTTGCATTTGCTGAGGAGTGTTT
TACTTCCAATTATGTGGTCAATTTTAGAATCAGTGTGACAAGGTGCTAAGAAGAATGTATATTCTGTTGATTTTGGGTG
GAGAGTCCTGTAGATGCCTATTAAGTCTGCTTGGTCCAGAGCTGAGATCAAGTCCTGAATATCCTTGTTAATTTTCTGT
CTCAGTGATGTGTCTAATATTGACAGTGGGGTGTTAAAGTCTCCCAATATTATTGTGTGGGAGTCTAAAAGTCTCTTTG
TAGTTCTCTACAAACTTGCTTTATGAATCTGAGTACTCCTGTATTGGGTACAAATATATTTAGGATAGTTAGCTCTTCT
TGTTGCGTTGATCCCTTTACCATTATGTAATGCCCTTCTTTGTCTTTTTTTGATCTTTGTTGGTTTAAAGTCTGTTTTA
TCAGAAGTTAGGATGGCAACCTCTGCTTTTTTATTTGCTTTCCATTTGCTTGGTAAATATTCCTCCACCCCTTTGTTTT
GAGCCTATGTGTGTTGTTGCACGTGAGATTGGTCTCCTGAATACAGCACAACAATGGATCTTGCCTCTTTATCCAATTT
GCCAGTCTGTGTCTTTTAATTGGGGCATTTATCCCATTTACATTTAAAGTTAATATTGTTATGTGTGAATTTGATCCTG
TCATTATGATGCTAGCTGGTTATTTTGCCCATTAGTTGATGCAGTTTCTTCATAGTGTTGATGGTCTTTACAGTTTGGT
ATGTTTTTGCAGTGGCTGTTACTGGTTGTTCCTTTCCAAATTTAGTGCTTTCTTCAGGAGCTCTTGTAAGGCAGGCCTG
GTGGTGACAAAATCTCTCAGGATTGGGTTGTCTGTAAAGGATTTTATTTCTCCTTCACGTTTGAAGCTTAGTTTGGCTG
GATATGAAATTCTGGGTTGAAAATTCTTTTCCTGGGGGAGGAGCCAAGATGGCCGAATAGGAACAGCTCTGGTCTACAA
CTCCCAGTGAGAGCGTCACAGAAGACGGGTGATTTCTGCATTTCCATCTGAGGTACTGGGTTCATCTCACTAGGGAGTG
CCAGACAGTGGGCGCAGGTCAGTGGGTGCATGCACCATGCGCGAGCCGAAGCAGGGTGAGGCATTGCCTCACTCGGGAA
GCACAAGGGGTCAGGGAGTTCCCTTTCCTAGTCAAAGAAAGGGGTGACAGACAGCACCGGGAAAATTGGGTCACTCCCA
CCTGAATACTGCGCTTTTCTGACGGCCTTAAAAAACGGCACCAGGAGATTATATCCTGCACCTGGCTTGGAGGGTCCTA
CGCCAACAGAGTCTCGCTGATTGCTAGCACAGCAGTCTGAGATCAAACTGCAAGGTGGCAGCGAGGCTGGGGGAGGGGC
GCCCACCATTGCCCAGGCTTGCTTACGTAAACAAAGCAGCCAGGAAGCTCAAACTGGGTGGAGCCCACCACAGCTCAAG
GAGGCCTGCCTGCCTCTGTAGGCTCCACCTCTGGGGGCAGGGCACAGACAAACAAAAAGACAGCAGTGACCTCTGCAGA
CTTAAATGTCCCTGTCTGACAGCTTTGAAGAGAGCAGTGGTTCTCCCAGCATGCAGCTGGAGGTCTGAGAACGGGCAGA
CTGCCTCCTCAGATGGGTCCCTGACCCCTGACCCCTGAGCAGCCTAACTGGGAGGCACCTCCCAGCAGGGGCAGACTGA
CACCTCACACGGCTGGGTACTCCAACAGACCTGCAGCTGAGGGTCCTGTCTGTTAGAAGGAAAACTAACAAACAGAAAG
GACATCCACACCAAAAACCCATCTGTACATCACCATCATCAAAGACCAATAGTAGATAAAACCACAAAAATGGGAAAA
AACAGAGCAGAAAAACTGGAAACTCTAAAAAGCAGAGTGCCTCTCCTCGTCCAAAGGAACGCAGTTCCTCACCAGCAAC
GGAACAGAGCTGGATGGAGAATGACTTTGATGAGCTGAGAGAAGAAGGCTTCAGACAATCAAATTACGCTGAGGTACTG
GAGGACATTCAAACCAAAGGTAAAGAAGTTGAAAACTTTGAAAAAAATTGAGAAGAATGTATAACTAGAATAACCAATA
CAGAGAAGTGCTTAAAGGAGCTGATGGAGCTGAAAACCAAGGCTCGAGAACTACATGAAGAATGCAGAAGCCTCAGGAG
CTGATGCAATCAACTGGAAGAAAAGGTATCAGCGATGGAAGATGAAATGAATGAAATGAAGTGAGAAGGGAAGTTTAGA
GAAAAAAGAATAAAAAGAAAAGGGCAAACCCTCCAAGAAATATGGGACTATGTGAAAAGACCAAATCTATGTCTGATTG
GTGTACCTGAAAGTGACGGGGAGAATGGGACCAAGTTGGAAAACACTCTGCAGGATATTATCCAGGAGAACTTCCCCAA
TGTAGCAAGGCAGGCCAAAATTCAGATTCAGGAAATACAGAGAATGCCAAAAAGATACTCCTCGAGAAGAGCAACTCCA
AGACACATAATTGTCAGATTCACCAAAGTTGAAATGAAGGAAAAAATGTTAAGGGCAGCCAGAGAGAAAGGTCGGGTTA
CCCTCAAAGGGAAGCCCATCAGACTAACAGCGGATCTCTCAGCAGAAACTCTACAAGCCAGAAGAGAGTGGGGGCCAAT
ATTCAACATTCTTAAAGAAAAGAATTTTCAACCCAGAATTTCATATCCAGCCAAACTAAGCTTCATAAGTGAAGGAGAA
ATAAAATCCTTTACAGACAAGCAAATGCTGAGAGATTTTGTCACCACCAGGCATGCCCTAAAAGAGCTCCTGAAGGAAG
CACTAAACATGGAGAGGAACAAATGGTACCAGCCACTGCAAAATCATGCCAAAATGTAAAGACCATCGAGACTAGGAAG
AAACTGCATCGATTAACGAGCAAAATAGCCAGCTAACATCGTAATGACAGGACCAAATTCACACATAACAATATTAACT
TTAAATGTAAATGGACTAAATGCTCCAATTAAAAGACACAGACTGGCAAATTGGATACAGAGTCAAGACCCATCAGTGT
GCTGTAATCAGGAAAACCATCTCACGTGCAGAGACACACATAGGCTCAAAATAAAAGGATGGAGGAAGATCTACCAAGC
AAATGGAAAACAAAAAAAGGCAGGGGTTGCAATCCTAGTCTCTGATAAAACAGACTTTAAACCAACAAAGATCAAAAGA
GACAAAGAAGGCCATTACATAATGGTAAAGGGATCAATTCAACAAGAAGAGCTAACTATCCTAAATATATATGCACCCA
ATACAGGAGCACCCAGATGCATAAAGCAAGTCCTGAGAGACCTACAAAGAGACTTAGACTCCCACACATTAATAATGGG
AGACTTTAACACCCCACTGTCAACATTAGACAGAGCAACGAGACACAAAGTCAACAAGGATACCCTGGAATTGAACTCA
GCTCTGCACCAAGCAGACCTAATAGACATCTACAGAACTCTCCACCCCAAATCAACAGAATATACATTTTTTTCAGCAC
CACACCACACCTATTCCAAAATTGACCACATACTTGGAAGTAAAGCTCTCCTCAGCAAATGTAAAACAGAAATTATAAC
AAACTATCTCTCAGACCACAGTGCAATCAAACTAGAACTCAGGATTAAGAATCTCATTCAAAACCGCTCAACTACATGG
AAACTGAACAACCTGCTCCTGAATGACTACTGGGTACATAACGAAATGAAGGCAGAAATAAAGATGTTCTTTGAAACCA
ATGAGAACAAAGACACAGCATACCAGAATCTCTGGGACGCATTCAAAGCAGTGTGTAGAGGGAAATTTATAGCACTAAA
TGCCCACAAGAGAAAGCAGGAAAGATCTAAAATGGACACCCTAACATCACAATTAAAAGAACTAGAAAAGCAAGAGCAA

Fig. 6.123

ACACATTCAAAAGCTAGCAGAAGGCAAGAAATAACTAAAATCAGAGCAGAACTGAAGGAAATAGTGACACAAAAAACCC
TTCAAAAAATTAATGAATCCAGGAGCTGGTTTTTTGAAAGGATCAACAAAATTGATAAACCGCTAGCAAGACTAATAAA
GAAAAAAAGAGAGAAGAATCAAATAGACGCAATAAAAAATGATAAAGGGGATATCACCACCAATCCGACAGAAATACAA
ACTACCATCAGAGAATACTACAAACACCTCTACGCAAATAAACTAGAAAATCTAGAAGAAATGGATAAATTCCTGGACA
CACACACTCTCCCAAGACTAAACCAGGAAGAAGTTGAATCTCTGAATAGACCAATAACAGGCTCTGAAATTGAGGCAAT
AATTAATAGCTTACCAACCAAAAAGAGTCCAGGACCAGATGGATTCACAGCCGAATTCTACCAGAGGTACAAGGAGGAG
CTGGTACCATTCCTTCTGAAACTATTCCAATCAATAGAAAAAGAGGGAATCCTCTCTAACTCATTTGATGAGGCCAGCA
TCATCCTGATACCAAAGCCAGGCAGAGACACAACCAAAAAAGAGAATTTTAGACCAATATCCTTGATGAACATTGATGC
AAAAATCCTCAATAAAATACTGGCAAACCAAATCCAGCAGCACATCAAAAAGCTTATCCACCATGATCAAGTGGGCCTC
ATCCCTGGGATGCAAGGCTGGTTCAATATACGCAAATCAATAAATGTAATCCAGCATATAAACAGAACCAAAGACAAAA
ACCACATGATTATCTCAATAGATGCAGAAAAGGCCTTTGACAAAATTCAACAATGCTTCATGCTAAAAACTCTCAATAA
ATTAGGTATTGATGGGATGTATTTCAAAATAATAAGAGCTATCTATGACAAACCCACAGCCAATATCATACTGAATGGG
CAAAAACTGGAAGCATTCCCTTTGAAAACTGGCACAAGACAGGGATGCCTTCTCTCACCCCTCCTATTCAACATAGTGT
TGGAAGTTCTGACCAGAGCAATTAGGCAGGAGAAGGAAATAAAGGGTATTCAATTAGGAAAAGAGGAAGTCAAATTGTC
CCTGTTTGCAGACGACATGATTGTATATCTAGAAAACCCCAATGTCTCAGCCCAAAATCTCCTTAAGCTGATAAGCAAC
TTCAGCAAATTCTCAGGATACAAAATCAATGTACAAAAATCACAAGCGTTCTTATACACCAACAACAGACAAACAGAGA
GCCAAATCATGAGTGAACTACCATTCACAATTGCTTCAAAGAGAATAAAATACCTAGGAATCCAACTTAACAAGGGATG
TGAAGGACCTCTTCAAGGAGAACTACAAACCACTGCTCAAGGAAATAAAAGAGGATACAAACAAATGGAAGAATATTCC
ATGCTCATGGGTAGGAAGAATCAATATCGTGAAAATGGCCATACTGCCCAAGGTAATTTAAAGATTCAGTGCCATCCCC
ATCAAGCTACCAATGACTTTCTTCACAGAATTGGAAAAAAAACTACTTTAAAGCTCATATGGAACCATAAAAGAGCCCG
CATCACCAAGTCAATCCTAAGCCAAAAGAACAAAGCTGGAGGCATCACACTACTTGACTTCAAACTATACTACAAGGCT
ACAGTAATGAAAACAGCATGGTACTGGTACCAAAACAGACATATAGATCAATGGAACAGAACAGAGCCCTCAGAAATAA
TGCTGCATATCTACAACTATCTGATCTTTGTCAAACCTGAGAAAAACAAGCAATGGGGAGAGGATTCCCTATTTAATAA
ATGGTGCTGGGAAAACTGGCTAGCCATATGTAGAAAGCTGAAACTGGATCCCTTCCTTACACCTTATACAAAAATCAAT
TCAAGATGGATTAAAGACTTAAATGTTAGACCTAAAACCATAAAAACCCTAGGAGAAAACCTAGGCATTACCATTCAGG
ACATAGGCATGGGCAAGGACTTCATGTCTAAAACACCAAAAGCCATGGCAACCAAAGCCAAAATTGACAAATAGGATCT
AATTAAACTAAAGAGCTTCTGCACAGCAAAAGAAACTACCATCAGAGTGAACAGGCAACCTACAAAATGGGAGAAAATT
TTCACAACCTACTCATCTGACAAAGGGCTAATATCCAGAATCTACAATGAACTCAAACAAATTTACAAGAAAAAAACAA
ACAACCCCATCAAAAAGTGGGTGGACATGAACAGACACTTCTCAAAAGATGACATTTATGCAGCCAAAAAACACATGAA
AAAATGCTCACCATCACTGGCCATCAGAGAAATGCAAATCAAAACCACAATGAGATACCATCTCACACCAGTTAGAATG
GTGATCATTAAAAAGTCAGGAAACAACAGGTGCTGGAGAGGATGTGGATAAATAGGAACACTTTCACACTGTTGGTGGG
ACTGTAAACTAGTTCAACCATTGTGGAAGTCAGTGTGGCGATTCCTCAGGGATCTAGAACTAGAAATACCATTTGACCC
AGCCATGCCATTACTGGGTATATACCCAAAGGACTATAAATCATGCTGCTATAAAGACACATGCACACGTATGTTTATT
GTGGCATTATTCACAATAGCAAAGACTTGGAACCAACCCAAATGTCCATCAATGATAGACTGGATTAAGAAAATGTGGC
ACATATACACCATGCAATACTATGCGGCCATAAAACATGATGAGTTCATGTCCTTTGTAGGGACATGGATGAAATTGGA
AATCATCATTCTCAGTAAACTATCGCAAGAACAAAAAACCAAACACCGCATATTCTCACTCATAGGTGGGAATTGAACA
ATGAGAACACATGGACACAGGAAGGGGAATATCACACTCTGGGGACTATTGTGGGGTGGGGGTAGGGGGGAGGGATAGC
AATGGGAGATATAGCTAATGCTAGATGACGAGTTAGTGGGTGCAGCACACCAGCATGGCACATGTATACATATGTAACT
AACCTGCGCATTGTGCACATGTACCCTAAAACTTAAAGTATAATATAAAAAAAAAGGAAAAACTAGAGTATAAATGAAG
TGTCAAAGATGTTAAGAAACAGGATCTTTTAAAAAATTGTTTTTAATTATTATGGGTACATAATAAGTGTATATATCTA
TGGGATACATGTGAAATTTTGATACATACAATATATAATAATCTTATTGGGGCAATTGGGGTGTCCATCACCTCAGGCA
TTTATCATGTCTTGTATTAGAAACAGTCCAATTCTCCTCTTTTAGCTATTTGAAAATATACAATAAATTATTGTTGAGT
ATAAAAAAAAAGTCCACACCTAGTCATATTATGTTCAAATCACAGAAAACTAAAGACAACCAGAAAACATGAAAGAAGC
TACAGAAGAGAAGAAATTTACCTAAGGAGGGACAAGGATAAGAATTACATCAGAAATCTCATTGGCAACCATGCAAGAA
AGAAGAAGGTAGCGTGAAATATTTAAAGTGTTTAAAGGATAAAACTAGAATTCTGGATACAGTGAAACTATCCTTCAAA
AGCAAAGAAGAAATGCTTTCTCAGACAAAGGCTGAATCTGTCACCAGTAGACCTGCCTTGAAATAAATGTTGAAAGAAA
TTTTTCGGTCAGAAATGAAATGACATAGGTCAAAAACTGAAATCTACGTAAAGAAAAGAAGAGCTTTCAAGAAGGAACA
AATGAGCATAAAATAAACTCTTTAATATTCCTTAACCTTAAAAAAAAAAAAAGAAAATTCCTTCCTTTAAGAGTGGCCC
CCTCTCTTTTCTGTCTTGTAGGGTTTCTGCAGAGAGATCCACTGTTAGTCTGATGTGCTTCCCTTTGTGAGTAACCTGA
GCTTTCTCTCTGGCTGTCCTTAACATTTTTTCCTCCATTTCGACCTTGGTGAATCTGATGATTATGTGTCTTGGGGTTG
CTCTTCTCGAGGAGTATCTTTGTGGTGTTCTCTGTATTTCCTGAATTTGAATGTTGGCCTGTCTTGCTGGGTTGGGGAT
ATTCTACTGGATAATATCCTGAAGGGTGTTTTCCAACTTGGTTCCATTCTCCCATCACTTTGAGGTACACCAATCAAAC
GTAAGTTTGTTTTTTTCACATAGTCCCATATTTCTTGGAGGCTTTGTTCATTCCCTTTCATTCTTTTTTCTCTAATCTT
GTCTTCACCCTTTCTTTCATTAAATTGATCTTCAATCTCTGATATCCTTTCTTCTGCTTGATCAATTTGGCTATTGATA
CTTGTGTATGCTTCAGGAAGTTCTTGTGCTGGGTTTTTCAGCTCCATCAGGTCGTTTATATTCTTCTCTAAACTGATTA
TTCTAGTTAGCAATTCCTCTCACCTTTTTTCAGTGTTCTTAGCTTCTCTGCATTGGGTTAGAACATGCTTCTTTAGCTC
GGAGCCATTTGTTGTTACCCACATTTTGAAGTCTACTTCTGTCAATTTGTCAAATTCATTCTCCATCCAGTTTTGTTCC
CTTGCTGGTGAGGAGTTGTGATCCTTTGGAGAAGAGGCATTCTGATTTTTGTAATTTTAAGACTTTTTGCACTGGTTCC
TCCCCATCTTCATGGATTTATCTACCTTTGGTCTTTGATGTTGGTGACCCTTGGATGGGGTTTCTGACTGGACATCCTT
TTTGTTGACGTTGATGCTACTCCTTTCTGTTTGTTAGTTTCCTTCTAACAGTCAGGCCTCTCTGCTGCAGGTCTGCTG

Fig. 6 (124)

GAGTTTGCTGGATGTCCACTCCAGACCCTCTTTGCCTGGGTATCACCAGCAGAGGCTGTAGAACAGCAAAGATTGCTGC
CTGTTCTTTCCTCTGGAAGGTTTTTCCCAGAGGGGCACCCACCAGATGCCAGCTGGATCTCTCCTGTATGAGGTGTCTG
TCGACCCCTGCTGGGAAGTATCTCCCAGTCAGGAGGCACGGGGGTGAGGGACCCATTTGAGGAAGCATTGTGTCCCTTA
GCAGAGCTCAAGCACTGCGCTGGGAGATCCACTGCTCTCTTCAGAGCCAGCAGGCAGGAATGTTTGTCTGCTGAAGCAG
CGCCTACAGGCACCTCTTCCCCCAGGTGCTCTGTCCCAGGGAGATGGGAATTTTATCTATAAGCCCCTGACTGGGGCTG
CTGCCTTTCTTTCAGAAGTGCCCTGCCCAGAGAGGAGGAATCTAGGAAGGCAGTCTGGCTACAGTGGCTTTGTGGAGCT
GAGCCCAGTTTGAACTTCCTGGTGGCTTTGTTTACACTGTGAGGAGAAAACCGCCTACTGAAGCCTCAGTAATAGCAGA
CACCCCTCCCCTCACCAAGCTCAAGTGTCCCAGGTCCACTTCAGACTGCTGTGCTGGCAACAAGAAATTTAAACTAGTG
GATCTTAGCTTGCTGGGCTCCACAGGGGTGGGATCCGCTGAGCTAGACCACTTGGCTCCTTGGTTTCAGCCCCCTTTCC
ACAGTTGTGAATGGTTCTGTCTCACTGGCCTTCCAGGTGCCACTGTGGTATGAAAAAAAAAAAAAATCCTGCAGCTAGC
TCGGTGTCTGCCCAAACAGCCACCCAGTTGTGTGCTTAAAACCCAGGATCCTGGTGGTGTAGGAACCCAAGGGAATCTC
CTGGTCTGCAGGTTGCAAAGACTGTGGGAAATGTGTAGTATCTGGGCCGGAATGCACCATTCCTCACAGCACAGTCCCT
CATGGCTTCCCTTGGCTAGAGGAGGGAGTTCCCCAACCCCTTGAACTTCCCAGGTGAGTTGATGCCCAACCCTGCTTCA
GCTCACACGCCGTGGTCTGTACCCACTGTCTAACCAGTCCCAATGAGATGAGCTGGGTATCTCCGTTAGAAATGCAGAA
ATCACCTGCCTTCTGCATTGGTCTCGCTGGGAGCTGCAGACCGGAGCTGTTCCTATTCGGCCATCTTGCCAGCCAGCCA
CTGTAATTCACTTATTTTCAAATGTTACCATTAGAACTGTATACCATATTACAAGTTTCAAACACTATCCTGCCAGGGC
ACAAAAGAGTTCCTAGTTGCCTTAAAGAATTAGCTATTGTTTCATCTGTGTGTGGCTTCGTCTCAGAGGGTGATTGAAA
CATGACAAGAAGTGATTTTTTTTTCTCAAGAGAAATGGAGGCTTTGGACATTAGTGTCATAGCAATGTCATGTAGAACA
TACATAGAGAATTCTATGAAGAAATCAGCCAAGCCGTGACTATCGACCAAAATTTTCAACTTTCAACAATGAGATGAAT
ATACTATCTATATATCTAATAATCCAAAGCTTCATTTATGAACATATTGCTTCTCAAAATAAAAATTTGGAGCAGTTTG
TGATTTAATGATGGAAATTTTTTATAAGAACTATAATGGCAGTTAAATTATAAAACTGAAGTTACTAATATGAATCAGT
GAGCCTTTCATGAGCTTTTATTTTAACCAGCTAAAATACTAAAATACTTTTATTTTAATCAGCTAAAGCATTCAACTTA
TAGTGAGGAGAGTTTTGTTTTCAACACAGTTACGAAAGAATTCGGGCTCACTTAATTGTAAATAAAAATCTTAAAGAAG
AAACCATTGTTTAAAATGTTACCTCATTGAGTTTTTCAGTAAATGGAACAAGAATTAACATTTAGGGTAATAATAGTTT
ATGTCTGTTTTTAATTATCGGACAGAATACTTAGGGAATGGACAGAGGCAGTAAAGAAAAATAGTTCATTATATTATAA
TGTATCATTAGTTTTGAATGTGCATACACCTAATATTAACTGTATGTATAGTACACAATTGGTCATTTTATTTTTAAAA
TATTACCTCATATCAATAATCCTAATTTAAATGGTTAAGAACATGGAAATAATTTCCATGAAGTATGCATTTCTGAGTA
ATGGTTGTATATAACCAAAATGAAAGCTAATTAATTCATTTGGTGAAAGTTATAGTGAGATAAAGCACAGACTGTAGAC
ATATACAACATTAATTAGGACAATGTTATTCTACATCTACAGGTGGAATTTCCACCCAACCTGGAGGCTCATCAGCATT
TACCTTTTATTCAAAGGGGAAATTGGTGAGAGAGTAGAGGCAGATAATCACAGCATCCCACTCTACTAGAAAAGCAAGC
CACAGCTCCCATCCTGCTGGTGATGTGACAGCACTGGTCTTTCTACACAGCAGCACACTAGTACCAAAAAAGAGGCTTT
GCTTTTTCTGTGTGATGAGCTGTAAACCTTCATATTAGAAAAACTCAGAAAAGAATTTGCTTAGACGCTAATCAAATA
CAAAAATTGTGGCTGATGGAAACTACACATAGATAAATTAGTCCAATATTCTTCTACTTGTGAAATTTAAATAACTTCA
TCTTAAGAAATAAAGGTAATTGGGAAAATTGAAAAGGAAGTGTTTCCAGTTTTGATAGAGTGAATGGGGCATTCAAAAT
ATATTTCTAAATGAATGATAAAAATAAAATACTTGCAATATTATCAGAATTTATTTCCACAATAAATATGTTCAGGAAT
GTTAAGTGGGGAAGCCTGGGCAGCCATTGTGCTGTAACTGGCTCTGTTTATTTTTTGCTCTTCAAAAGAGAAAGAAAGG
AACCTTAGCACAATAGCAGAATTTCCTGATGGTGGCTATTACAATTTTACCACTGAGGAAAGGACATCTATGGGTCTTT
GAAAAGCTAGGAAACATCTTGAATATCAGAAATTGTAAATGAATACTACTTGGTGTAGATTAAACTAAAGACATGGGAT
TATATGGTCTCAAAGCCACAGATGTAGTTGGGTCCTAAGAACCTTGTCATATATATCTATATTTTTTATTTTTTTTATT
TTTTTTCTTTTATTATTATTATAGTTTAAGTTTTAGGGTACATGTGCACAATGTGCAGGTTAGTTACATGTGTATACAT
GTGCCATGCTGGTGTGCTGCACCCATTAACTTGTCATTTAGCATTAGGTATATCTCCTAAAGCTATCCCTCCCCCCTCC
CACCACCCCACAACAGTCCCCAGTGTGTGATGTTCCCCTTCCTGTGTCCATGTCATCTCATTGTTCAATTCCCACCTAT
GAGTGAGAATATGTGGTGTTTGGTTTTTTGTTCTTGTGATAGTTTACTGAGAATGATGATTTCCAATTTCATCCATGTC
CCTACAAAGGACATGAACTCATTTTTTTATGGCTGCATAGTATTGCATGGTGTATATGTGCCACATTTTCTTAATCCAG
TCTATCATTCTTGGACATTTGGGTTGGTTCCAAGTCTTTGCTATTGTGAATAGTGCCACAATAAACATACATGTGCAT
GTGTCTTTATAGCAGCATGATTTATAGTCCCTTTGGGTATATACCCAGTAATGGCATGGCTGGGTCAAATGGTATTTCT
AGTTCTAGATCCCTGAGGAATCGCCACACTGACTTCCACAATGGTTGAACTAGTTTACAGTCCCACCAACAGTGTAAAA
GTGTTCCTATTTCTCCACATCCTCTCCAGCACCTGTTGTTTCCTGACTTTTTAATGATCACCATTCTAACTGGTGTGAG
ATGGTATCTCATTGTGGTTTTGATTTGCATTTCTCTGATGGCCAGTGATGGTGAGCATTTTTTCATGTGTTTTTTGGCT
GCATAAATGTCTTCTTTTGAGAAGTGTCTGTTCATGTCCTTCACTCACTTTTTGATGGGGTTGTTTGTTTTTTTCTTGT
AAATTTGTTTAAGTTCATTGTAGATTCTGGATATTAGCCCTTTGTCAGATGAGTAGGTTGCGACAATTTTCTCCCATTT
TGTAGGTTGCCTGTTCACTCTGATGGTAGTTTCTTTTGCTGTGTATATGGAACTAAAAAGAGCCTGCATAAGCCAAAA
GAACAAAGCTGGAGGCATCACACTACCTGACTTCAAACTATACTACAAGGCTACAGTAACCAAAACAGCATGGTACTGG
TACCAAAACAGAGATATAGATCAATGGAACAGAACAGAGCCCTCAGAAATAACGCCGCATATCTACAACTATCTGATCT
TTGACGAACCTGAGAAAAAGAAGCAATGGGGAAAGGATTCCCTATTTAATAAATGGTGCTGGGAAAACTGGCTAGCCAT
ATGTAGAAAGCTGAAACTGGATCCCTTCCTTACACCTTATACAAAAATCAATTCAAGATGGATTACAGACTTAAACATT
AGACCTAAAACCGTAAAAACCCTAGAAGAAAACCTAGACATTACCATTCAGGACATAGGCATGGGCAAGGACTTCATGT
CTAAAACACCAAAAGCAATGGCAACCAAAGCCAAAATTGACAAATAGGATCTAATTAAACTAAAGAGCTTCTGCACAGC
AAAAGAAACTACCATCAGAGTGAACAGGCAACCTACAAAATGGGAGAAAATTTTCGCGACCTACTCATCTATATTTTTT
AATGGATTTAACCAGCAAGAAAGACCATGGAGCCACCTAAATTTTTCCAAAATCTGCAAAATGAAGGTGATATAAATAT

Fig. 6.125

GTCACTTAGACAATATTTCATTTTGATATAAAATTTATTTTTTATCAGTTTGATAATATGCATAGGACTAAAAAATG
CAGTTGTCTTAAAATATTTTAGGGTTGCTTAGGA[illegible]TCACTTTAAAAATAAAAAGTGTCAGAATAAAGTTGTCTGCTT
ATGTTCCATATTTCAGAACTACCTTTGATTTCTTTAGCTAAACAATATTGCACATAAATAGGTTAGGAATTATAGACTT
TCAGATGTGCTACCTGTCTCCCTTCAAAACACTCATTTAGGTAATGTATTAATTATTTTTAGAATCACCTGTCTTCTCT
GCTTCAGCAAAAACCCCACCAGGGCAGAGATCACTCTCCCTCTTGTTTGCTTTGAATTTTTATGACTTAGCACAGTGAT
TGGCACATAAACATTATTAAAACCAATGAATGAGGAAAGCAACGAATAAGTAAACAAATGGGCCCAGACTAAAAAGTAA
GTTATATGTATTAGTGAGAGTCAATAATAAATTAATGAAATAATCTTTTATTTGAAACTGAAGCAAATTAAGGGAAATT
TATGAACCTTAAATCTTTTTGTAAAGATCTAGTACCAATAAGATAAAAAAAAATGCTCATCCTTTTTTCCATTGAAATGT
TATGTTCAAATGAGCTTTGTTTCTATACTTTATACATCAATTAAGCTGAATTCATAGGTGCTAAGCATTTTAACATATT
GTATTGCATGTAATATTCCCTAATGCCCCAAACTTCAAGATTATATAATGGCTTACTCTCTCCCTGTCCCTACCCACCA
GATAGTGTTATCCACATACATTCTCATCTAGTTTTGTTCTGTGATGAAAAACCATATGCGTATCCTATTCCTATGTGAA
TTAACCTGGCATGCAGGTAACTGAAGTGCATGTGATCTGGTCTCTGCTGACATATCACAATGGGCCCCCCTCCTTGCAT
GGAGGTAGCGTTTTTTATAAGACAAAATGTTTTTAAATAGAACACATTTCAGATTTCAGATTTTATATGTATTTTGTGT
TTTTCCTCCCTCTACCCCTTTCCAAAATTATGAATGAAATTCTAGGACCATTTATAGACAAAGCACAGTTTAGTCCGAG
TAAACCAATGGACCCTGAAGTGTCCAAGTCAGAGTTTATTTGCAGAATTTAATTCATTCCCACAGAGATAGGCAACCCA
GGCCTGTGAGGACACGAGGGTAACTAGGCAACAAAGTGCCGTAGTCAGGCTTGTGTTTGCTTTTTGGTAAGAGGACAAC
ATTGACTTCAGTGTCAGGGCATAAAGGAGACTCAGGACTTATTAATTTTTTTCCCCATAATTCTGTGAACTTTGTGAAT
TCCCTAATATTCTTTTAACAAGAGTTCGGAGACATGAGTTTATGTGCCTTCTTGGATATATTCACGGAGTTTGCAGAG
AAAGTTGAATAAATTATTAGGTTAATGGCCTGTGTAAATTCACCAACACCTTTTCACTATCTCATCAATCATCCTGTTT
GAGTTATTGTGATTCACTCTGCTGATGAGCTCACACCCTTTTTTCCTGATACAGGAATTATTGTACACCAGGGGACTGG
ATTTTAAACAAAACGTATTCCTTAGAATAACTTGAACAATGGATTGGTGGGTCCTTACACTATTATGTGCTGTGTAGCT
GTACAAGTGTGTCTGCATGAGCTTTAGGACATTATTTGAGATATTTTAAGCTATGTGTACCTCATGAACTTGTAGCTGA
TTTTCCTTAGTTCTTTTAAAATATTTTCTCAGAAAACCAACAGTAAAATCTATCAGGTTCACATGAATACACTCATTTG
TGTCATATCAACCCAAAATGAATATGATCTTCCAGGTAATGATGAAGGATGATAACTATAATATTTCCAGCCAAACTTT
ATTTTGAAACATCACTCAGTGTTTCACATGTTTAGTGGCTGTTAAATTCTATATGTCTAAGCAAACTGTGAAGAGCATA
ATTAACTTATTTGGTTGTTGTGTATCTTTTAAAATCACAGTTTGAATCTGCTGGGAATGTTATAGTGGCACTAGTAGCA
AAGGAATGGCAAGGATGTTAAGACTTTCTCATGCTAAGACCCCAGCTTGGTATTGAGTTTTTAGGAGGGGCCCGCATGA
CATCTCTAATTGCTTTGGCAATCCAATTATTGAGACAAGTAAGTGAGCCCATCGGGTGCCTCCCAAGGAATTAACTTGG
TCATTTGATATAATGTTGCACTCTCCCTATTTGGGAGGAGGGGTGGCCACCCTCACCTCTGCCATTGAAGATTAACCCA
CTACAAATTTTCAAAAATATAATATCTAATTTATTACACAGACTATCATATGGGTTTCATAATCCTTAAGTATCTCTAA
ATTTTATTATTATTTTAGATTTTTAAATAAGACTCCACCTAACTTGATGGAAGGAAAAGGGGGTCTAGAAGCATACAGA
GTTTGGCTCTTGGTTCTCAGAGTGACTCGCCATGTGAACATGGGCAAGTTATTTAACTTCTTTGAGCCTTTTGAATTTT
AATCTGTAAAACAGAGACAAAAATGCCTTCCTCAGAGGGTGAAAATAAGGATTAAGTACAATAATGAATGCAAAATACC
TGGCAGAGGACCTACCTTGATGTGCTATTCTCAACATTGATATTTAATCAGTATACACAAGTATGCCCTTTTTTTTTTT
TTTGAGACGGAGTCTCGCTCTGTTGCCCAGGCTGGTGTGCAGTGGCGCCATTTCAACTCACTGCCACCTCCGCCTCCTG
GGTTCAAGCAATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGACTACAGGCATACGTCACCATGCCCGGCTAATTTTTG
TATTTTTAATAGAGACTGGGTTTCGCCATGTTGGCCAGGCTGGTCTCGAACTCCTGACTTCAGGTGATCCTCCCGCCTC
AGCCTCCCAAAGTGCTGGGATTACAGGTGTGAGCCACCGCACCCTGCTGCATGCACATTTTGCCTGGATGATCTTCCAG
GCTACCATGTGGATCTCTCTCATACAGCAGAGGGAGAGTTGTACAGCAATGAGGGCTTCAGAACTGTGTCTGACCCATG
CTGATTGCTCAGTGCCCCTGAGCACAAGTTTTTAAACATTTTGAATCTCACCCATAATATTTCTCATCTTGCAGAGACA
GAGAGCATTGTGGCTATATAATGCAGGTAAAGTACCTAGTGTAACGAATAACATGCGGAAATGATAAATATCATAAGTT
GTATTACTGCCTGTGGTAGTCTGAATAATGGTCCTCAAAAGATATCCAAGTCTTAATTTCCATAACCTGTGAATATGTA
ACCTTATATGTCAAAAGGAACTTTGCAGATGTGGTTAATTTAAGGATCTTGAGATGGGGGGATTTTCCTTGATGATCCA
GGCAGGCCCTAAATGTAATTATAAAGGGGCCTTTTAAGAGAGAGGCAGGAAGGTCAAAGGCAGAAGAAGGCAATGTGAC
AGCAGAAGTAGAAATTGGTGTGAAGCCGCAAGCCAAGGCATGCAATGCTGAAAGCCTCTAGAAGCTGGAAGAAGAAAGG
GATGAATCCCCCATTGGCATCTCCAGAAGCAATTAATCCCACTGACATCCTGATTTTAGCTTAGCTCTGTAAGACTAAT
TCAGGACTTCTGACTTATTTGTGGTGTTTTAAACCACTCAGTTTGTGTTAATTTGTTGTAAGGGCAATGGGAAATGAAT
GCACTTCCCATCCATAACCCTGTCTCTAGCTATGTTGAAGTCTTTACCATCCCCCAAATCTGACTTTTACTTGCATGCT
TCTTGCCTTTACATATCTGCTTTTCCTTCCTGCTTCTTCCTATCTCCCACATCATTGCCTTTCTCACAACTTCTCTACT
CAGCAAATTCCTGCTTATCCTCTGAGAGGGAGGACAAGATCATCTCAGATATAGTTTGCTAGCTAAGAAAAGAGTCCTG
AGACTGCTTTGAAATCTTGTGGTCCTTTATCCATAGCTCATGTAAATAACTCTGAGCTAGCAGTGTATATTATTTTTAT
TTCATCCTGGAACTATGTCTTAGCAATATTTTTATTGGAGAAAAAACTGAGAGCAAACTCTCTGTTTCCCACATGCCTA
TTGCCAAATTTCTCTGGGTGCTTTACTTTCACTGCACTGATTCTAGAAATTGTATTGACAACTGTGTTCTAAGATGACC
CTTTGATTCATCCAGATGGTGTGAAAATGTTCCTCTTCAAAAACCCCACACTGCTTTTCAACATCCTAATGGGTAGAAT
CTCTAAATCCTTAGGGTGTCAACAAAAGCAAAGGGCATATTTACACTTCAGTTGGGTGAAATTAATTAGCATGGAAGTT
AATATTTACAATTAATGGAGATTACCTGACTTTAATAGTGAGATTGTGTAGCTACTTTGTATCACTCACTCTTTTTTTG
TTGTTGTTTTAGAAATTGTGGCAAAAAATGGATAAAATAAAATTCACCCTTTTAAAACATTTTTTGAATTCCTGGAGTG
TAAAAGTGGTAGGATAACCAAAACATCCTCTTTCTTGTTGAACCATCAACAATTGTCTTTTGAAAAGAGGTTTGAATAT
CTTTTCTTTGAAAATCCTCGTGCAAAACTTCACACCATGATCATTTATGAGGTAGTTATCAGACACTGGAGATGAATTA
CTGGGGATTTTTGTGTTCTGGTTCTCAGTATACAACCAAAGGTAGAATATTGACATTGAAAATAAATGTCACTCGTTTC

Fig. 6.126

TCAAGGAAAATTTGTAGTTTACCGAACAACAGCACAAATGAAAGCTGAGATACTTTACCAGTGATATTGTAGGTCTCAG
TGAGTAAAAACTCAATTAAAAGTATATTGGGGTGGCGGGGGCACTGTGTATAGATAGACCTGGACATGATCTCTAATCA
CAAATGCTACTTTTAGAAGGGCCAGATTCTTGATACAGAGACATTTTATTTGGTGGCAATAACCATGGCTTGTCCACAG
AATGATGCCGTATTATTCTCCTGACCTAACTTCAAAGAAATAAAGAGTTTGCAAGAAGAACTGCAGTTCTTCAAAGTAC
GCAATATGGATTTCCAAGATGAATGTAGTTTCTCTCTCTGAGGAATTCTGAACAGTGGTAAAGTTTCACAAGTTTATGC
ATATCTTTTGCTCTACATCCTTCCCTAAAAGAACTTGTGGCAACAAACAAAGGGAAAGAAATAACATTTTTTAATAACT
ATGTGGAAAGCTCTATAGTAAGTGCTTCACATGTTACCTCATTTAATTCTTACAACTACCTTATCTAGTAAATTATCTC
CCATTTGACACTTTAAGGAAGCAGCTAAGAGATGTTTCATAACTTTCCTAGAAAAGGTAGGATTTGAATGCAGGTTTGT
ATTATTCCAAAGCTCACAATGTGCTTTACGCAACATCAAAGTAACATATTGCGGGAATGAGTACCTTTCCCATTTAAAA
CAAATGAGTCCTGGAAACTCTTACCCTGTTTAGTTATGGAATGGCTCAGAAAATAGAAAGTGTTGAGATCATCAAAGAG
AGAAGTTAACAAAGAGCATTGTAATCCAGAAATAAGAACGCAATAGAGAAGTAGAAGTTGTGTGGCTAATTTTACCAAA
CTAAATAGCCTGAATTATTCAGTGTGACTATACACATTGATCAAATTAAATGAGCATACCATAGTCTAAAGGGGACGAG
ATTTATATTCTATCCAAGAAGTCATTAATTATGTTTGTACTATCTTCATCATGGTTATCATTTTTCTTAGACATAGCCT
AATCTATAAGATTTTACTGTATTTCCCTGAATTACTAAATTCTTCTATTTTTGAAGTTTTACTAAGATTTTATTGTATT
TCCCTGAATTACTAAATTCTTCTGTTTTTGAAGTTTTACTAAATACTTCAGAAGCTTTACTAATTAAAAAGGTAATTTA
TAATGTTTATCACTAACCAGTTGATAATAAAGCGCTTCCTTATAGCTTCTTAAGATAATAGCTAGAAAACAAAGCTGAT
TTTAATTATTCTTGTAATTTGCTTCAACTTCACTGACAGTCTGTTGTATATTTTCTGCATATGTAATTACATCAGGTTT
TGACTATTTTCTCTGAGGTAAATAATTCCAATTACTTTAACCTGTCATTGTTTCTCTTTCTCTCTCATTTCTTTCTCTC
TCCCTCCCTCTCTCTTTCTCTTATTATAAGACATATTATTTGTTTAATTTTAATAGCTATTCCAGCAGTTAAATATTCT
TATCATAAATTTCTTGCAATTTTTAAATGTGGAATTCCAGTACAAAACTTTGGTTTAGCAGTAGGTAAAAAGATAGATT
GAAATTTATGTAAACATATTATTCTTCATCAGGCAGGGCTAGCTGACTGACATCTGCTTTGGTTTGGATTCAAATACAG
ATTTAAAGGGAGGCTATACATGGAAATTATCCCCAGGCTCCTCCCCGCTGCTGTTCCCAATTTCTGCAGCAGCCTGCAT
GCTTGTATTTAGGATTCACCAATTTTTTTGGCCCTTGTGTGTGCTTGGCTTTTGTTTTGATTTACTCTACAATGGCAGG
ATGTTCTGGGAACTGATGTGATGAAGTAAAGGAAAGCAAATAGCCTTTGTCATGTTTAATTTCCCTTAAAATCTATTTG
CCAGTGAAAGGCCTTTAAAATTTTTCATTATAATTAAATGTTTGTTAAAGCAAAAAGCCTCTTCTTGTATCTATAGACT
AAATCAGGGTTTCTTTAATCATAGGTGGTTAATCCTCACTACTCCTTTACCCAAATACATTTCATAAGATGCTAAAGAT
GTCAAGGAAAATTCATATCTCTGACTAACAGAAAATATTCTTTCACAAATAAAATGTGAAGTGTTCTTAGTTGTCCACT
ATTCTTTTAGGTCCTACATTATTCTATATCTATTTTCAACAAAAGCATAAATTATGGGAACATTGAATTAAAATAACAT
GAAGGTCCATACCATGTCCCTGGATCAGAAGTCTCCAAATCATAAAAAATTGCAGTGGTCCATCAACTGATCTGTAGATT
TGATATAATTTAAGTCAAAATACTGACTTGTTTATTTTGGGGGAACTTGCCAATCTGGGTCTAAAACTTACACGGAAAA
GCAAAAATTAATAGGCCACTGTAGATTTTCCTTACGAGGTAGTGTGAGTTTTTAAATTCATTTATTTATTTATTTTTGA
ACATTTAATTTAGGTTTGGGGTATATGTGCAATTTTGTTATAAAGGTAAACTCGTGTCACAAAAGCATTGAATTTTATG
CCATGTTATCTATGGTTGAAATATAATAGGGAGCGAGTTTATTTTAAAATCATGTGTCTTTTTAAGATTTGATTTATGC
TGACTTCAGAATGTGACGAGTTTTAGAAATCTGAGTGTAGGAATGAATGTTCTATTGGAAGTATCTAGTTTATTGCTTT
CAGCTCTACTGATCATGGATATTAACCAACTCTTGTTTTTGTTTTTTGTTTTTTTGTTTTTTGAGACGGAGTCTCGCTC
TGTCGCCCAGGCCGGACTGCGGACTGCAGTGGCGCAATCTCGGCTCACTGCAAGCTCCGCTTCCCGGGTTCACGCCATT
CTCCTGCCTCAGCCTCCCGAGTAGCTGGGACTACAGGTGCCCGCCACTGCGCCCGGCTAATTTTTTGTATTTTTAGTAG
AGACGGGGTTTCACCTTGTTAGCCAGGATGGTCTCGATCTCCTGACCTCATGATCCACCCGCCTCGGCCTCCCAAAGTG
CTGGGATTACAGGCGTGAGCCACCGCGCCCGGCCTTAACCAACTCTTTAAGCAGTGTTTGGCTCATGGACATTGGGGTT
AAGTCTGTGTAATTAGGGCTTTAGGATATTGGGATTAATTAAACCAGTTGCTGCTTTAATCCAGCATTTTAGGCATCAA
TGGTTGATGATGGGAATGATTCTGTAACTTGCATTTATGGTCTAAGAGCTCACTGGTGTATATACCTGGGTTAATTGGG
GATTTTAGGTAGCCAGAATTGGAAAATAGAATGCACAGTATGAGAAATTCCCCCGTCTCTGAGGATGGGGGATGCTGGG
GCCCCCGTACCATCAAGTAGCACATCCACAACTCACTCCATTTACCACATCATCACCATCACCACCACCAACAAGCACT
TGACCTCCATCCTAACTTCAACAATCACCTTCAGTCTGCCTAACTGATGCTATGGAAGAACAACAGAGACTCAGAAGGG
TAAGAGGGTGGTGGTGGCGGGTGGTAGATGATGAAAGATTACTTACTGGTGTGAACCTTCAAGATTTGAGACAAGTCTT
AGTTAATTTGGAAAGTTTATTTTGCCAAGATGGCATTGAGGATGTGCACCCCTAACAGCCTCAGGAAGTCCTGACAATA
TATACCCAAGGTGGTTAGGGCATAGCTTAGTTTTATACATTTTAGAGAGACATGAGACATCAATCAATGTATGTAAGAA
GTGCACTGATTCAGTCTGGAAAGGCGGGACAACTTGAAGCAAAGGCAGGAAGACTGGAAGCGGGAACTTACAGGTCACA
GATAAGTGAGATGAATGGTTGCATTATTTTGAGTTTCTGATTAGCCTTTTTAAAGGAGGCAATCAGATATGCATCTATC
TCAGTGAGCAGAGGGGTGACTTTGAATAGAATGGGAGGCAGGTTGGCCCTAAACAGTTCCCAGCTTGACTTTTCCTTTT
AGCTTAGTGATTTGGGGGCCCCAAGATTTATTTTCCTTTCACACTGGGTATAAGGTACATGATTTGAGTGATGGATACC
CTAAAAGCCCTGACTTCACTGCTATGCAATCTATGCATGTAACAAAATTATACTTGTACCCCATACATTTATACAAGTA
AAAATAAATAAATAACAAAAACAAAACAAAAATAACAATGGCCCTAGCCATAAAGCAATTTTTAATTTAGCGGGGAGGA
CAGATATGTATCTAACCAGTTATACTGGAAAGTGGAGTGAGCTCAATATGCTAAAATAGAATTATTGTGCATCATAAAT
GTTTAAGAGGAGGGAAAGGGTAATCTGACTGGAGGGATTGAGGAAGATTAGAGAAGTTGTCATTGACTTGGCCTTGAGG
CAAAACAGGGGTTTATTTATTCAGCAAATCAATATGTATTGAGTGCCTAGAATTTAGGAATCATTGGAAGGGCATACTG
GGAAGAGATTATATTGAGATCAAAGATCAAAAGAGAAAAAAATGCAAGGAAGTTTTTAGAATGTTGAGTCACAGAAGGG
TCTTAAAGCAAAGAACTATAGGAGGAAAGAGGCAGTTGAGGAATGTAAACTAGGAATATGGATCAGGGGCATTTCATGG
ATTTTACTCATTTTTATACAAGTAATTGGATACTTCCTTCAGTCAGCGGCAACCATGAAAGGTTTTGAGTTGAGTGAA
ATGAACAGAGCATGATTTATTGGTGGATATGTTGGAGGGAAGGAAAAATTATACTGAGGAAGACCAATTAGAAAAATTT

Fig. 6\127

CACAATAGTTTAGGCAAACAATGAGGGCAGACAGACCCAGGATAGTGGCTGTAGAAACAAAGGAACAGATGTGAAGAAT
TTTATACAGATGTGTGTTGAGATTGCACAGTGGTGAAGGCAGGGCTTTGGGGGCACCCATTACTCAAATAATGTACATT
GTATCCAGTGTGAAAGGAAAATAAATCTTGGGGCCCCCAAAACATGAAGCTAAAGGAAAAAGTCAAGTTGAGAGACAGA
AAAGATAGAAGAAAAAGGCAAAGAGAGCTCAAAGGTTATCAGCCTGACAGTGATAAGTGATTAACAGAGGAAGAGTGTC
TGGGTCCATGAAATAGTGATGTATTTGGGCAAATAGAGTCTATGTTGTCTGGGGTGTAAGCTAAAAGAATCATTTAGCA
AATGGAGAAGTGAAATAAGAGAGAAGTATTTCAGGGTCCTCTGTTTGGAGGTGAATGACAGTTGAGGCCATAAGAGGAC
ATGATCGTATCAGGCATAGAATATAGAACAGAGATTCTCAGAATTTTCCAACTCATTCACAATACCCAGAACAGCAGAG
GACACGAAAGTTTTAACTCAAGTTATTTGATGGCACAGTTCAAAATGCAACATTTCTTTAGTATCATGTGTTTTGCTTT
AAAAATATGGATAGATTCTTTATTCCACTGCATGATGTAGTCACACATTTCTTCCTGATTCCAGCACTAATGGACAAGG
TTTTGCTGTATTGAGATTCATTTATTTAATCAACAAATCTTTATTGAGTGTCCAGCATGCATCAGACACCATTCCAGGC
CCTGGGGATATGTCTGTGACTGAAACTGGCAAAGCCTGTGATGACGCTTACAGTGTTGTGAGAGGGAGACAGACAAGAG
ACCAGTAATGGATGAGATATTTCAGAAAACAAGTACTATGATGGAAGTAAAACATAGTGATGAGATGATGAGTGGTGGG
GGGCAACAGCAAAGACATGGAGTCAATCTAGGTGCCTATTGACACCTAGGTACATATACACCATGTGGTAAATATATAC
CATGGAATATTATGCAATCATAAAAAAGAACAAAGTCATGTCCTTTCAGCAACATGGATGTAGCTAGTGGCCATTATCC
TAAGTGAATTAAAGCAGGAACAGAAAACCAAATACCTCATGTTCTCACTTATAATGGGAGCTAAACCCTGGTTATACAC
AGATATAAAGATGGAAACAATAGACACTAGAGACTCCAAGAGGGAAGAGGGAGGGAGTGGAGCAAGGGTTAAGAAACTA
TCTATTGGGTACAATGTTCACTATTTAGGTGACAGGTTCAATAGAAGAGCAAACCTCAACATCATGCAACATATCCATG
TAACAAACCTACACATGTGCCTCCTGAATCTAAAATTAAAAAGAAAAAAAGAGAGAAGGAAAAAAATGGCGGGGGAATG
AGAGGGTATGACTAAACTTCTCTGAAGAGGTAACCTTTGAACTGAGCCCTGAATAACAACGAGGATACAGTTATACTTT
GGGACAAGTCACCTGGACAGAAAAAATTTGCGTGTGTAAAGGCTTTTAGGTGTGAGAAGCTCATTAGTATGGAGAAAAA
AGAAGTCTACAGAAACATGAAGCAGAATGAAATTGAAGAGTGAGCACGGTTCTGGGATACCATGCTGAGAAGTAGATTT
TATTTTAAATGCCACAGCAAATCATTGAGGGTTTTCAGCAAGAAGATTAAACGATCTGATTTAAGTTTGTAAATGATTC
CTCTGCCTAGGGTGTGGAAAATGTGTTGCATGGGGCTAGAAGTGAAAACTGGGAAAACAGCTGAGGGGATGGCTAATGG
ACTTATCATGGTGTTGAAAGTGATGAGCAAAAGACTAACCCCTAAATATTATTCATCGAGTTTATCATTTTCCTGTATA
ATTGGACTGAGTTAAAGACAGCTAATCACATACATTCGGTTCAGTATCACTACACTTTTTCTTGTCTTGGTGTTTCCTC
ATTCTCAGGACTCAAATTAATTAAGTACATGTGAGCACTTTAAAGATTTTATGATCTGTGCATGAGGAATGATGTGTGA
AGATAAGGCCAGAATCATAAATGGAAGGATGATGCCATGTTGTCAGGCTGCTCTTGCCAAAAATGTGAATGTGTCTATC
TTACTGCTGAGTCATTGGTGCACTTGTCTACTTGTCTGGGTGGACTAAAAGAGTCTCTAGTCCACTGTTTTTGTTGCTG
TTGTTGTTGTTTTGTTTTAAACATTCCCATGGAAATATTTAGCAAGGACATTTTCAATGAAGAAATATGAATAGTGATC
TTTGTTTCGTGACTAATGCTGTAATTTTTGCACATGTAAATGAACTGAGCCTCAAATTATTCACATTCTGATATATCTC
TATTCAACTCTCAAACTATCATTTCATGTTATAATTTTGCTACCATTTATAAAAACCATCACCACATTACCTTTTTAAT
AGTTGAATGACAGTGTTCTGACTTTGAGGGAAAAATCTGCTAACTAGACAATCCCATGTGACCCACAATTTGTTGTTAA
GTATAAAAAATAAATTAACTCATAATATTTAGGATTTGTTTGTTTGTTGTTTCTGAGATAGGGTCTCACTGTATTGCCC
AGGCTGGAGTGTAGTGGTGCAATCTTGTCTCACTGGGTTCAACTGATTGAATGCAGTGAGACTCCACCTCCTGGGTTTA
AGTGATTAATATTTAGGGTTTTTTTAAATCATGATGTCTTTGTTACTTACATGGAAATAAACTAATTTATGGTTGAAT
TAGAAAATTCTAACCATGAGTACTATTTATATTTTTCAGGAAGAATACATCTAGTAGTGGCACAAGCTTTCTAAGTCTC
TTCTCATTATATTAGAATTTTACCTAAAATAATAAATATTAAAAATATGGTATATTGTAAAATTTTCTAGCTTTACTAA
ATCATTTTACATGCTGAGAAAAATCAAGAAAAAAAGTTGTTTTGAGTGGTCTCTTGGTAAATGCAAAACACTTTAAAGT
TAAGACTATGTCTGCTTTACTTGGAGTTGAATCCCCAGGATCTAGCATAGTGGTTGGTATTCAAGAAGCTCAAAACTTT
GGGATGAATAAATAAAATCATTAGTTGCTGGAGTAGTCGGGGGCATAATGTCTTTGATTCAAACTATTGCTTCCAAAGG
TTTGCTTAACATAGATGTGAGTCTAACATTTTTCTTCTAATGCTCACATCTTGCTGCAAACGTTTTCATAAGTTCTACT
TTCAAGTTCTTTGGCAATATCTTGACAGACTACTTTATAAGTGAGGCCAACTAATAAAGTAGTTACATCATTTACATCT
GTATCTTCAGTCTAATAATTGGTATAAATCCAATTTATCTTCATATTCTTGATTATTCAACAATGCTTTGTCCTGTAAA
AATACACCTCAAAAATACATCTCAAGTGCCTCTTTTTGAATCAGAACAAATCTAATCTAACTTGCCCACACAGAGCTCC
ACCAAACTATCCCTTGCCAGGAGTTCTACCTTCCTTGCTGCTTTTGAAACAAACAAACCTTGATGATACTTCAAGCAGT
TTTTTTTTTCTCTGCTTGTTTGTGCGTTTGAAGCATTGCTCATAACCAAGATTTTGCTCTCTTGCCTTTTAACTTCAAA
CTGTTTTTCCAAATTGATTTATATGTTATATATTCAATGGATGTTTCCGTGGAACAATTTTTCAGAGTTTTCCACTGAA
CAGCTAAATAAGGCTCATTTTGTATCTCCACCGTGATTTAAAAACCTCTGTTTTAAATGAACATCAAAATATGACTTAC
AAATTTGTGGCCAACTGCAGTGCTCATTTGGAGTTCCATAATTGTGCTTGGGGACTGTTACATGATGCCTTAAATCACC
AAATGCCCTGTGATGTACCCCATGCTTCAAGGTTGTTCTGAATTCATCTCAGTATCTTTTCCATTTTTACCACTTACAA
GCTTTTGCTCCAAACATAACTGCTTGTGACCACCTCTGTAAATTTCTAATTGAAACTGTAATTTTAAATAAATACATCT
TTGAAACAATAAATACAGAGTGACAGTTCTCTAAAGTTAGAATCTCTAGACTTATTGCTATTTTCAGACTAGCTTCAAC
AAGAAATGCAACTAAGCATAGTTTCATGTCTGTACACAGAACTTTTGTTTAAGTACATTTGTGGTACTTGAACCACATG
TGGTTGAACCAGTGGTTATGTGTGTGCATGTTCAATCAAAAATAAAATAAACAATTATGGTTTGTAAGAAGACACACTG
TTTTATAAATTCTCTCTCTCTTTCTCTCTCCCTCTCACTTATAGTTGAATTAGAAAATTCTAACCATGAATACTATTTA
TTTTTTAAGGAAAAATCCATCTAGGTAGTAGTATAAGTTTTCTTAGTCTTTTCTCATTATATTACAGTTTTAGCTAAAA
TAGTGAATATTAAAAATATTGTATTTTGTAAAATTTTTTAGTTTTACTAAGACATTGTACATGTTGAGGAAAATCAAGA
GCAAAATTCTCTGACCCATTTTTTAGAGAAATACTAGCCCTATGGTTGGGAATTATTAGTGATATCTGTGGTCACAGTC
GTGCATACGTTCACTTTGATTTGATTACAGTGTTAGTGACACTTGCTTCCCCAACAACTCTGATGTACCATATTTTCCA
GTCACTCATTATATGTGAATATTTTCTACTTACAGGACTTAAAACATGAAGTTTGCTGACCTGGAATAGTATGAATTAT

Fig. 6!128!

TCTGCTTCTAAGGTTGTTTCAGCCAGCCTTATAATGCAACTAGTGTGAGAAGCAGTGACACAAAAAAGAATAGAGCCAA
ACTTCAGGTAACACCCTTTTAGGAGTGGAGAGAAGGGGACCTGTAGAAGTAGAGAAAGAAATCTGAAAAGGGGAAAACT
AGGAGCATCAGGGTGATTGATGCATGTGAAGCAGGAAGAAAGGCTTAAAAGACATTGTTAGTGGGGAAATGAAGACAGA
TAAGAAAAGAAACAGGCCTTTGGAGCTGAGGTCTAGGAAATTATTGGTGGGGGAATGCAACTGAAATTGCTAGGAGTT
GAGTCAGGCAGCTATGAGCAAGTTCAATGGTAGGTATAAACCATGCTTTCAAACAAAAAAGTTGAAATAAGAAAACAAG
AGCCCAGATGCTAAGGACATGGGGAAATTAAGAAAACAGTTGAGGTAGAGAAAGAATTTAAGGAGGGCTGAATGCTATA
ATAGCTGCCATTATTTGACTGCTTATTATGCACCGTGGAGAGTTCTAAATGCTTTAGCTAATTTAATCTTCATGAGACA
CCTAAGAGATAAATCCTGCTATTATTATTCATATTTGGATAGGAGATTAAGGCACAGAGAGGTCGTACAAACAAGTGA
GTGTCAGGATTCAAAGAAGGAGGTTTTGCTCCAGAGGCCTCCTGAATTTAACCACTGTGCTAGAGACACAGGGACATTC
AATGGAGCATTAATGTCCCGAGCTGGTGACAGGTCGAGCTGAGGCTATAGATGTGTTGAGGAGTCAGCATCAGTGGAGG
AGGAAAGAGATGCGGATGGAGGGAGACTCGGTGTCTTTGAAATAGATAAGAGAGAGAGACAATGTAATGGTTTCCACTT
GGCACAGAAAGAAATGCCTTACTAATTAGAGGACCAGGGAGACACAAGAGGAGCCTAAGAAGAATGGAATGAATTAGAA
TCATCACTGTGGAGTCTGTGATAGGGAGTCAACTAAAGTGGAAATAAGTAATTACCAAATAACAATGAGGGGTCAGCAT
CGGCAAAGGAATATGTTTGTAATAGAGGCTTCGCAGCTGTATCTGGAGCCTGGGAGCGCAGGCTGAGAGGGACATTGAG
ATGTAATGAGGGATGTGACATCTTAGACAGAGAGAGAGCTGGGATGCTCTCAAGAACTTCATTGATATCCCTGTCTGTA
ATAGAAAGAGGTAAGTATAGCAAAAAAGTTAGAGCCATAATTGGTTTTCACATTTTAAAAATTGGATTATGATTAAAGG
AAAACATTTAAAGACCTTGTCTAAAGGAATATAAAATTCTTGAGTCTAGGCACTCTCCATAACTTAAATTAACTTCCCC
ATTTCTTCTACAGGAATACTCCTCTGTTATAAGGATTCAATAAATATGGTGACTTTATTGTTATTCGAAAGATTATAGG
GAACTTTAGGAGGTGGTATGGGTACAGAGGAGTCCATCTACAAAAACGTTTTTAGCCCATCTTCTAAGCTAAGCTGATT
TTGGAAAAGGAGCTCTTTTAAGGAGAATAAAGCTACAAAAATGACCTTTAAAACTGTCCTATCCAGACTCTGGCTCTCT
AAATTGGAATCTTTGACAAAACCACAGCTGGAAGACAGCAGCCAGTAATACAGCAGCCATTAATACAGCTCCATGTCCA
AAGAGGAGGGATGTTTGTTTCTACTAATTACACAAAAACATGCAATATTCAGCCAGGTGTGATGGCTCACACCTGCAAT
CCTTGCACTTTGGGAGATCAAGTCAGAAGAATCACTTGGGCCTAGGAGTTTGAGATTAGCCTACACAATGTAGCAAGGC
TCCATGTCTTTTAAAAAATAAAATTAAGGTAAAAATAAAATAAAAATGCAATATTTACTGCTAAGATGTGCTTCTTGAG
GATGGACTTGAAATGGTCCACCACCAGGACATTAAAGACAGGGTCTGCTCCTGCTTTCTCCTGAGAGAGGAAGAACACT
GGTTAGATTTACAGAAGTATCAATACCAATATTCTTAGTGTATTTAGTATTCCTGCATTTATAACAGAGCATCCGGTAA
TTGACTTGAAATTTGACCTCAGCTTTTCATCCAGTATGCTAATGATGGTATAAAATTTACACTCCTTACATAAATAAAT
GTACCCTCAAATGTGTCATTTTCCTGCATTGACAGATGGATCCCATGCTTAAAATTACCACAAATTCTTATTCTGAGCA
GCTTTGCACAGCACTCTGCATCCACTTTTGTTGTTTGCCACGTTATAGCACTGCTTGTGCCCTGAGCTTGCGTCTCAAG
GTGGCTACAGCGTGACATTTTCCTTGAAGAGCGATAGGCAGAATTTAATTGATTTCATTTTGCTTGGATTCTCAAAGGC
TTCTGTGGCTATGCCTATTACCTAACACTGCTCTCAGGAGGTATAAAGCTGTGTCCAGTTGTTCTTGTTGCATGTCATT
GAGTGACTTGGTGCCACTTGCAGCAGCCCTTCTTGCATTCCAATGACTGCATTCCTGAATCTATTATGACATAGAGACT
CTAGGGACCAATGAGGTTTTGTGTAGGAGGGCTAACTTTTATTTTCCCCTTATAGTTCCTTTGTCTGGATTTTCCCCCT
TTCCTATCTATCTTTATAAAGAGACCTTAAATGAAGGCTACAGCTATAAGATGAACAAATAGCTGGCTATTAAAAATCT
CCAAATTGTCATATAAATGCAAACATGATCCCAAATGATTGGTTTGAATAAAATTCAGACTTTACTGATTGGAGGTGGG
CAATTCCCAGTTATAGGCTGACCTTCCACTTCCTTCAGAGCTAACCCTCTAAACAAGATTAAGCTTATGTCTAGGATGG
GAGAGAGAATGGCTGGAAGAAAAGAAGATGTTTCACTTCCTTATGTTGTGGCTTAATGTAATGGCTTAAGAACAATAAT
TATTTTTTTTCCTCACAATTTGTTAGGCCAGATCAGGTATTGGCTTGGTGATTCTTCTCTTCATGTGGCATCAACCTAG
CTGCATTCAACTGGTGACAGGACTGGGCTGAGCTGGGCTGGGCTGGGTTGGTCTGGGCTGGAAATTCCAGGAAGCCTTC
ACTCCTATCTGTGGTGCCTCAGGGCTCCTCTGTATATTATCTTTTTTCTTTCACTGTCATAGTGTTCTCTAGAGAAATA
GAACCAATAGGCTGTGTGTGTGTATATGTATACATACAGCCTGTATGTTTGTGTGTGTATGTGTGTATACATAAACATA
CAAATGAGGCATGCCTCATTTTATTGTGTTTTGCTTTATGGTGCTTGACAGATATTTTATTTTTTCACCAATTGAAGGT
TTGTGAAAACTCTACATCTAACAAGTGTATTGATGCCATTTTTCCACAGCATGTGCTCACTTTGTGTCTCATTTTGGTA
ATTCTCACAATATTTCAAACTTTTTCATTATCATTATATTTGTTACGGTGTTATGTGTGACCAATGATCTTTGTTGTTA
CTATCATAATTGTGTTAGGGTTTCAAAAACCATGCCTATATAAGATTGTGAACTTAAGTGATAGATTGTGTGTTTTCTG
ACTGCTCCACCAACCATCCATTTAGTCCATTTATTATCTCTCTGTCTCTCCTCAAACCTCCCTATTCTCTGAGACACAA
CAATATTAAAATTAGGCCAGTTAATAATCCTACAATGGCCTCTACATGTTCAAGAGTTTTCAATCTTTTTCTTTAAATT
AAAAGCTAGAAATGATTAATCTTAGTGAGGAAGGCACGTTGAAAGCTGAAATAGGCTGGAAGCTAAGCCTCTTGTGCCA
AGCAGCTATCCAAGTTGTGAATGCAAAAAAATAAAATAAAAGTTCTTGAAGTTCTGAATTCTTGAAGCAAAGAAGTTCT
TGAAGGAAATTGAAAAATACCACTCCAGTGAACACATGAGTGGTAAGAAAGCGAATAGCCTTCTTGCTCATATAGAGAA
AGTTTAGTGGTCTGGACAGAAGGTTCAAACCAGCCACAACATTCCCTTAAACCAAAGCCTAATCTCAAGCAAGCGCCA
AACTCTCCTTATTTCTTTGAAGGCTGAGAGAGGTGAGGAAGCTGAAGAAGAAAAGTCAGATGCTAGGAGAGGTTGGTGC
ATGAGGTTTAAAGGAGAGAAGCCATCTCCATAACATCAAAGTAAAAGGTGAAGCAGCAAATGATGTAGAAGCTGCATCA
AGTTACCCAGACCTAGCTAATGCCATTGATCACAGTGGCTACACTAAATAACAGATTTCAATGTAGAGGAAACAGCCTT
ACATTGGAAGAGATGTCACCTAGGACTTTCATAGTTAGAGTGGAGAAGTCAGTGCCTAGCTTCAAAGGACAGGTTGACT
CTACTCTTAGGGCTAATGCAGCTGGCGACTTTAAATTAAAGCCAGTGCTCATTTAGCATTTCAAAAATCCTAGGGCTCT
TAAGAATTATGCTCACTGGTTTCAAAGAACTTCTTGACTACTGCCTTAATTTCATTATTTGCCCAGGAGTTATTCAGGA
GCAGGTTGTTCAGTTTCCATGTAGTTGTGTGGTTTTGAATGAGTTTCTTAATCTTGAGTTCCAGTTTGACTGTGATGTG
GTCTGAGAGACTGTTATGATTTCAGTTCATTTGCATTTGCTGAGGAGTGTTTTACTTCCAATTATGTGATTGATTTTAG
AGTAAGTTGTCTTGTGGCACCAAGAAGAATGTATATTCTATTGTTTTTGGGTGGAGAGTTCTGCAGATACCTATCAGGT

Fig. 6.129

TCACTTGACCTAGAGCTGAGTTCAGGTCCTGAATATCCTTGTTAATTTTCTGTCTTGATTATCTGCCTAATATTGACAG
TAGGGTGTTTAAGTCTACCACTGTTATTGTGTCTAAGTCTCTTGGTAGGTCTCTAAGAACTTGTTCTATGAATCTGGCT
GTTCATGTATTGGGTGCATATATATTTAGGATAGTTAGCCCTTCTTGTTGAATTAATCCCTTTACCATTATGTAATGTC
CTTCTTTGTCTCTTTTGATCTTTGTTGGTTTAAAATCTGTTTTGTCAGAAACTAGGATTGCAACCCCTGCTTTTTTCCG
CTTTCTATTTTCTTGGTAAATTATCCTCCATCCCTTTATTTGAGCCTTTGTGTATCTTTGCACATGAGATGAGTCCCT
TGAATACAGCACACTGATGTGTCTTGATTCTTTATCCAGCTTGCCATTCTGTGTCTTTTAATTGGGGCATTTAACTCAT
TTACATTTAAAGTTAATATTGTTATGTGTAAATTTGATCCTGTCATCATGATGCTAGCTGGTTATTTTGCAGACTTGTT
GATGCAGTTGCTATATAGTGTCCTTGGTCTTTATATTTTGGTATGGTTTTGCAGTGGTTTGTAATGGTTTCTCCTTTAC
ATAGTGCTTCCTTCAGGAGCTCTTGCAAGGCAGGCCTGGTGGTGACTAATTCCCTCATCATTTGCTTGTTTAAAAAGGA
TTTTATTTCTCCTTTGCTTATGAAGTTTAGTTTGGCTGCTTTGAAATTCTGGGTTTGAAATTCTTTTTTTTTTTTAAGA
ATGTTGAATCTTGGCCCCCAATCTCTTCTAGCTTGTAGGGTTTCTTCTGAAAGGTCTGCTGTTAATCTGATGGACATGA
ACAGACACTTCTCAAAAGTAGACATACATACAGCCAACAGACACATGAGAAAAAGCTCAACATTATTGATCATTACAGA
AATGCAAATCAAAACCACAATGAGATACCATCTCATGCCGGTCAGAATTGCGATTATTAAAAGGTCAAGAAACAACAGA
TACTGTTGAGGCTGTGGAGAAATAGGAACGCTTTTACACTGTGGCTGGGAATGTAAATTAGTTCAACCATTGTGGAAGA
CAGTGTGGCAATTCCTCAAAGACCTAGAACCAGAAATACCATTTGACTCAGCAATCCCATTACTGGGTATATGCCCAAA
GGAATATAAATCATTCTATTATAAAAATACATGCACATGTATGTTCATTGCAGCACTATTCACAATAGCAAAGGCATGG
AATCAACCCAAATGCCCACCAATGATAGACTGCATAAAGAAAATATGGTACATATACACCATGGAACACTATGCAGTCA
TAAAAAAAATGAGATTATATTCTTTGCAGGGACATGGATGGAGCTGGAAGCCATTATTCTCAGCAAACTAACTCAGGAA
CAGAAAACGAAACACCACATGTTCTCACTTATAAGTGGGAGCTGAACAATGAGAACACATGGACAAAGGGAGGGGAACA
ACACACACTGGGGCCCATTCAGGGGGTGCTAGGGGAGGGAGAGCATCAGGATAAATAGCTAATGCATGTGGGGCTTAAG
TCCTAGGTGATGAGTTGATAGGTGCAACAAACCACCAGGACACACATTTATCTATGTGACAAACCTGCATGTCCTGCAC
GTGTATCCAACAACTTAAAATTAAATTAAATTAAATATGCTAAATCTACTCTCTTTGTGCTCTATAAATGGAACAACAA
AGCCTGTATTACCGTATTTCTGTCTGCAGCATGATATACTGAATATTTTAAGCCCACTATTGAGACCTACTGCTTAGGA
AAAAGAGATTTATTTCAAAATATTACTGCTCATTGACAACGCACCTGATCACTCAAGAACTCTGATGAAGGTATACAAG
AAGATGAATGTTTCTCTCATGCCTGCAAAAACAACATTCATTCTGCAATCAATGGATCTAGGAGTCATTTTGACTTTCA
AGTCATACTATTTAAGAAACACATTTCATACAGCTATAGCTGCTATAGATAGTGATTTCTCTAAAGGATCTGGGCAAAG
TAAATTTTAAAACTTCTGGAAAGTATTTACTACTCTAGATACAATTAAGAACATTTATGACTCTCAGGAAGAGGTCAAG
ATATCAACATTTACCGGCATTTGGAAGAAGTTGATGCTAACCCTCATGATGACTTTGAAAGTTTCAAGGTTGCAGTAGA
GGAAGTAACTGCAGAAGTGGCTGAATTGCTGCAATTTCATGATAAAACTTGAAGAGATGAGGAGCTACTTCTTATGGGA
GCCAAGAAAGTGATTTCTTGAAATGGAATCTACATCTGATGAAGACGCTGTGAACATTGTTGAAATAGCAGCAAAGGTT
TTAGAATATAATATAAACTTACTTGATAAAGCAGTGGCAGGGCTTGAGAGAACTGACTTCTATTTTGAAAGAAGATATA
CTGAGGGAAAAATGTTATCAAACAGCACCACATGCTACAGAGAAATCTTTCATGAAAGGAAGAGTCAATGGATGTGGCA
AACTTCATTGTTGTATTATTTTAAGAAATTGACATAGCCACCCCAACCTTCACAACCCCCACTCTGATCAGTCATCAGC
TACCACCATTTAGGCAAGACCCTCTGTCAGCAAAAAGAGTACAAGTTGCTGAAGGCTCAGGTGATTGTTAGCATTTTCT
AGTATAAAGTATTTTTAACTAAAGTGTGTACACTTTTTAGTTACAATGCCATTACACACCTAATAGACTGCAGGATAGT
GCAATGTAAACATAACTTTTATATTCACTGAGAAACAAAAAAATTCATGTGAGTTACTGTATTACAATATTTGCTTTAT
TGCAGTGGTCTGAAACTGTACCTGCTATATCTTTGAGGTATGCCTGTGTGTATGTGTATATATATGTATGTATACACAC
ACACAAACACACACACACACACACACACACACAGAGAGAGAGAGAGAACAGAGATTATTTTAAGAATGGCGTGAACC
CAGGAGGCAGAGCTTGCAGTGAGCCGAGATCGTGCCACTGCACTCCAGCCTGGGTGACTGAGTAAGACTCTGTCTCAAA
AAAAAAAAAAAAAGAATTGGTTCATTTGGTCATGGAAGTTGGTGAGTCCAAAACGTGCAGGATGGTCCAGCAGACTGAA
GACCCAAGGAGTGGATTTTGCAACTCAAATCCGAAGGCTATCAACTGGCAGATTTCCCTCTTCCTTTGAGAACATCAGT
TGTTTTTGTTATTGTTGCTCTTAAGGCCTTCAATTCTTTGAGTGAGGCCCATCCACATTATGGAGGGTACTCTATTTTA
CTCATTTACTGATTAATCTCATCTAAAAAGTAGTTTCACGGCAATATAGATATGTTTGACCAAATATCCAAGTACCATG
GGCTAGCCAAGCTGACATATAAAGTTAATCATCATACTCTCTGTGTAGTGTCTCATCATTTAGCCCAAAGAAGCTTGGG
CTTCTTTACAGCATAGCAGCTGGCTTCCCAGGGAGAGCAAGTGGGTCTGTCAGACCTGGGCTCAGGAGTCCCGGGATAT
CATTACTGTTGCATTCTATTGGTGAAAGAAAGTCACAGGTCTAGCTCATAGCTAAGGGGAAGAAAACTACAACCTACTT
CATGGTGTGAGGAATAGCATATGTGGGCAGGGATGAGGGGAATAGTTGGAGACTAGCTATCACAATCTTCCCTCTGGCC
ACAGCACTTCTTGTCCCTTTTCAGAAAGTCTCATCACATTACAGTGCTGGGCCCAGCTTCAAGGTCCAAAATCACATAA
TCTAAATTGGGTATATTTAAAGTTGATGTTCCCTCTTTATCTAGATACTTGTACCTAAAATGATACCTTCTGTGTAATC
CCCCTTCCCTGCAACATACATTGATGAGACAGGGATTGTTGTATCGCTAGCAAGAAAGTCAGCCATTCAAAAGGAGGGA
AATGAGAGGCACATAGCAATCGGTGCTTCATAAAAATTCTGAGATCCAGCTGGGAACATGTTACCAATTCCCTCAAATC
TAGGTTTCCTGAAAAGGATCCTGTTCTCTGGATGTGGATTTCTATTCCATTGTTTTCAGTGCCTGTTGACTCTCTCCTC
TAAGTTAACCTTCCTTTTCTGTAAGAAATGGCCCTCATTCGCAAACGGAGTCACTTTGTGAGACTATTTATTCCATTAA
AGGTTTGGAGGCCTAAAATCTTCTTTTCATTTTGTCCTGTCACTCTCCCTTTTCTTCCAAGGTGGCACAGCTTCTTTTT
AAACTTTGTAATTTTCTAATGTATCCAGTTATATTCCATTCCATTGGGCGAAAGCTATTTCCCCAAGTCTCTTTAAGAC
AGACACTTTTCTTCTTTAGACTGAGAGTCAGAATCCTGTGCAGTAACGTTTTTAAGAGTTTAATCACCCTTGTCTCCTA
GCAGAGTGGAACTTATAAGGGTTTTAAGAGGTATCTTACTACCACATTCTTGACTTGATATTTACCCTGAGGCCACATT
GTACTAGCAGTACTTGATTTGATCAGAGACCATTTTTTACTCTGAAAACCTTCTGCCATCTGGAGGGGTTGAGAATGAG
AAATAATATTATTTTCTAAGCCAGCAAGTCCTGAGTTGGACTTTGTGGATTAAAATAACAGTTTCCTATTTCTGATGGG
TAGGATTTTCCTGAGTATGTCTTCTGCTCCATGTGGTATTGATTAGGTAGGTCACTTACGTGGCTACATTTAGTCAATA

Fig. 6.130

GCTGGTCTGGGCTGGATGGTCCAAGAAAGTTTCAGTCATATACCTGGCACCTCTGAGCTTTTCCATATGGCCTCTATGT
GGAATCATCTTGGGCTTCCTAATAGTATGGCTGATTCAGACTGGTCAGACTTTTTTTTTTTTTTTTTTTTTAAAGTGG
AGTCTTGCTCTGTTGCCAGGCTGGAGTGCAGTGGCATGATCTCGGCTCACGGCAACCTCCGCCTCCTGGGTTCAAGCAA
TTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGACTACAGGTGTGCACCACCATGCCCAGCTAATTTTTGTATTTTTAGC
AGAGATGGGGTTTCACCATGTTGGCCAGGATGGTCTCGGTCTCTTGCAGGCTGGTCAGATTTTTATATGGAGGCTGAC
TCCAAGGGAAGGTGTTTTAAAGGAACAGGCCTGCCCAATGTGCAAGCACTTATCTAGCATTTGCTTGCATAATTTTTCT
AATGTGCCAAAGTAAGTCATATGGCAAGGCCAGGATCAACATGGGAGAAACTACATGAAGTGGCAGTGCCAAGAGGTAG
CATTTATTATGGGTCACCCATATAACAATCTCTCACACAGAGTAGTTTGGTAGCTGGACAGAAATAAATTTGTCATCTT
CTTGTACCTTTTACTAGTAGTATAACTTAGGGCAAATTGCTGTGCTTCTGGGATTCTTATTTGCTGCTTGTAAAATAGA
AAACATGACACAGATGCTACTAGATCTTTGTGACAACTGTACACACATATGCATACACACACACACGAGGTACTCACAG
TGGTACTTAACAATGGCTACTATGTTTTAATGGTGTACTTGGCAGACCAGCAGTTAGGTTTGAATGGACTAACTGTGG
TTTTATCATATCAGGACCAGGTTGTAATCAGAAATCAGCGCTTGCATAGCTCAAGGTGATTAAAGGTAAAAAGGTTAAA
AGTTGAGAAGAAAGGTTGGTGTTAGATACTATTAGTTCTTGGCCAAAAGCTGTTGGCCTTGGGAGAGGTGGAAGTTTGA
GATCAGGGATCACAGTTATATGAGAACACACAGTGATGGTGAAGTTTGGAACCAGAAAATAAGTCAGGATTATACGGGG
TCCAAAAAAAGCGGAGTCAGGGCACTCATGAATCTAAACCAGATATAGAAGCTTATGGAGTCAGAGAGCAGAAATCAGGG
ACACAGGCAAGAAATCCAGGAAAACAAGAATTAGATATACCCAGTATGTTGAGACAAATAGCTATGGGGCGCAGAGGCA
AGAGAAAAATTTGGTAGTTTGGAGCCATTGTCTCCAAACATAATTATAGCCAAAAGTAAAACATGTTCACAGCATGTGG
GCAGATCTTGAGCCATAGGTGGAAAAAGACATCTGGTTAGAATACGATGGCAGCAAATTGGTAGCTCCTGACATGCATC
AGAACCCCTTTAAATTTTCATGGGATTCAGGTTGTTCCTTCAATTATTTCAATGATCTAATCTTTAACTTCTTGAGAAT
ATGATGTTTTCCTAAAAAGGGGACTCCCACACAGAAACTGTCAGGCTATGAAGCTGTCGATGGCATTTGTAGTACTCAC
ACAGTTCAAAAAAATGATGCTATCTCTGCCATCTTTTGTTCCATCTGTAGAATAGTCCATTTTTTTTGGTTATAGCAGT
CGTCTTCCTTGAATGGTTCCTACCCAGAGGGAAATCGGAATTGCCGGTACTCCTATGTCTCAGTTGCAGAAGTCAGGAT
TTTTTCTGAATCATTCTGAGCATCTTATCTTTCCTCATGCTGATTATTATTTCAGTCTGAAAGCTTATGCTCTCTTATA
AAGTCACATTGTACTTTCGTTTTCCATTGAAAATTCTGAATAGAATAAAATGAAATCATTTAAAGTCATGTTTAAGAAA
AGTAGAGTTTCTTGATTAAAAAGGAGAAATTTAGAGTGGCATTCAAAAGAAATACATTAAAAGGAAAAAGTAGCATGCA
CTCATGCAGTTCTTGTTGGGAGGATAGTTTCTTTTCCTTCTCATTCGGCCCATTAAAAAGTTCAATTAATTTCTTTTAA
AGATTTCAATTATGAATGTATCTTAGGCATTGATAGGGAGTAATTTTTAGATCTGACTTATTTTTATATATTATTGTTC
ATTTTTATAGCTTTTCTGAGATTCTTGGCAGTGAGTCAGCACACAGCATTTCTACCTATAGTCCAATTTATATGAGTCC
TACTTTCATGCACCACTGTGATAGTGATGTCTCGGTTAGTGGCTATCATGGTCAGTAGCCTGAAGATCTATAGCATCTA
CATATTTAGAATGGATTTTTAATGTCTATGAGAGCCTTTATTTCTCCACTACCCGGTTCCTTTGTGGATCCTGAGTCTG
AGGAGAACATAACTGTCAATTAGAACCACTTTTTAAGAATTGCTGTAATTAAGATTTTTGATGACCGAGTTATTAATTA
GGAAACAGGGTCTCCATATTTTGCTCTGCTGCTTCTTTATGTCCTAGAGCAAGGGTCAGCATACTTTTACTGTAAATGG
CCTGGTAGTAAATATTTCCAGCTTTGTGGGCCACATCATTTCTGCTACAAATACTAAACTGCCATGTGGTACAACAGCA
GAAAAGGACCTATGCATAGACTGCTGTTTTTAATGTCAATATAGTATCAGTAGAAAAGACAGGGCTTAATAAAAACTTT
GTGTAATATGGTCTCTTTGGCATAAAATTAAGAAATGTATAGAAGTAAACGTTGTTACAAAAACTTTTGCAAATGTGTG
TCGCTTTTCCCAGCACTCACGAATAACAGTCATTTTTAACCAGACTTCTCGTTTTTGCCAAGTATTATTTGTTCTCATC
TAGTAACAGTCTAGGACAGGTGTCAGCAAACTACTGCCACAGGCTAAATCCTGCACCTTGTCTTTTCCTCTCATGCCAC
ATAGATATTCAAATGAGGAATCTATGCACAGGTCTTTGACCCACCCATCAGCAGAACATGCCCTTTCTGGAGCTCCATT
TCTCACTCTCAATAGTGCTGACCACTTAGGAGGAGCTGTCCATGTTCTTTTGTTTGAAATTCTCTATGAAAAATGACAT
CTTTTCTGAAGTGATTGCTGGAACTAATGGGGCCTTTTGTGTTTGCAGACCTGTTTTCCTCAGTGAAGCTGGCAGGGAC
TGGTAAGGAATCAGAATTACAATCTTGTCTTTATTAGCACTGTGTTTGCATCAGTCCTCTCCTGAGAAACAGTGCAGGT
TGAGATAAATTTCTCCTGTGAAGTGATACAATTCATTTTCATCTCACATATGCATGGCCTTTGTGCCATGCAGAACACA
CTTTTTACTGTTGTTGATGTAAGTGAGATGTTATTAAGAGGTTTTAGTTTGAGTTTATTTTAGATAATACCAATAATTG
AATGCTTTACTAGTGTTTACTACAAAGGTTTAAAAAAATCATTACTACCTATAAAACTGAGTAAAATAAAAATGATTTAG
AACTAAAGATAATCTCAAAATTGCACATTAGATAGCTATCCTATGTTGTAGAAGATATTCAGTCTGCATCATAATATTT
GAAACAAATACAACATTTCACCATAAGACAAGAGCAAAATGCACAAAGAATCGAGTGTTCCATGCAATAGGCTTTATGA
ACACAAAGCCTGTGGCCAAAATGAGGCAAGAGGAAGTATGAGGGGTACACAGATGTCATGTGCAGTACCACATACCACC
CCTGGGGAGTGATAAACTTTTTTGTGTATTTGCATTTGACTGATTTTTACTTTGTGAAAACATAATGTGCTGGGGAAAA
TCACATCTGAATCCACAAAATGTCCATGGTATATTGACATGTACCCCTAATTTATCAATTTTGTATGAATGTATTTGCA
TTAGAGAAACATGTTTCAGAATACATTGTGCTTTGCAAGTGTTTGCACTGTTGCAAACTATGTGCTTTATCTCACTGAA
TCTTCACAATTACTGCATGCGGTGGGCACTATTTTCATGCCTGTTCTACAAATGAGTAGACATATAAAAGTTAAATAAC
TTGCCAGTGGCTTTGAGGAAATACGTAACAGTATATTAGAGATGGGATTGAGTTATTCTAATTTTCAGGAAGAAGAGGA
AAGTGAATTCTCCCCACTTATGTCCTTAGGGAGTAGGACATTAATTGTATTTCTTTTAGTTCTTTTTGCAAATGTTACT
TTCACAGAGGCTTCTCATGGATCCCTATCTAAAATTACTCCCCATTCTATAGACTTTTGTTTAAAAAAAATAGAGGCCA
CAATGTACATACTCCAAGACCAACTGCCATTAGCCACATAACCAAAATTTAAATTATCTCAATTTTCTCCAAAATACTA
GGTCTAACCATAAACAAAACGTGAAATGTGAGCTTTTCATCCTTGTCAACATGACTCAGTAAAATTAAACCAATCAGCT
GCAGACAAATCAGCTTAAACAGTTTTACTTGTCCTAAAAGGAATATAAGTTTATGATAGCCAACCACAGCGAAGACAGA
TGCAGTTCCTTAATTATGCTTTATAAGCTGCATTTTAAATGCTGTGAACAGAGCTTCTTACCACTTTTGATTTGAGGTC
CCTGGTTTGCAAACTGTCCTTTTGTATGCTCAATAAACTTTAAAAAATTTTTCTAACTTGATCTGATTTTAACACATTC
TATCTACTTTAGTGCTTTTTATATCCTAAACACATGACGCTAACATTCTATATAGCTCACTTGTTTATACTGTTTATTT

Fig. 6.(13)

TCTCTTCCCCTACACTAGTGAAATTCTATGAAGGCAGGAATGTTTGTCATTGTCACACTACTGTATTTCCAGTGCCTAA
TATAGGCACTCGATAAATAATTATTGAATGAATGAATCAATCAATTGATTAATCTTAGGAAAAGTTCTTTAATGGATCT
TAAAAAAAAATCTTGTGAGCCTTTAGAAAGGAAAGTGATGATCACCTGGAGCTTGTATTAGGTCACTAATAGTAAAGCA
TATCAGATTAAATAACTTACTTTTCCCATAAGACCAGTGTATCTGAGGAGTGCTGCTCCCCCTGTCTATCTGAATTTCA
ACGTTTGATAAAAACCTTCCATGATGAACTTATGCTTAAGATGTAGGAAGGCAGTTGATGATACTGTTAGGCAGAGTAA
CAGCTGAATGCCTGTATTCATGAATCAATGTTTAGAGAGAGACCTCTAGTAATTGGCTGAAGGATTTGGTCTTCACATT
TCCTGTTCACCATTTTCATTGTTAATTTTGAGGGTGGTATTAATGGCATAAGGAGCTAATCCACAGATGAAATAAAAAT
GGCAGGAACCACTAATATGGCTGTTAACAAAATCAGCATACAAAATTACTTGACAGACTAAATGGGAGAGGTAAATATA
ATAAGACAAAATACTAAAATGAAAATATAAAGTCTAAAACACCAGAGGGAAGTAGGAACTAATGTTGTTTGAGGAGCAA
TAGGAGCAAAGGTGAGACATAGTTTAATAACAACTGTAGGTTTAGGTGGTAGTTACAGAAGCATAAATCAATAATATGA
CATTATTCCCCCCAAATATTCATTCATTCTTGGGTTTCATGAATAGAACTGGGTTTAGAATAGAAAAGGTAATGATTTG
GCTGTAAATTTATGTTGCTTCTCCCATAGCTAGAGCTATGACCCCAATCCTGGGCAATTCACTTTAAGAACTTTGAGAA
GTAGTGTACACCTAAAACTTGCAATCCTCATGGAAAGATGAGTCCAAACTGTGTCACGTGAAGAATACCTAAAGCTGTG
GTTCCAAACTTATGGCCTTCAGATGTGTTCTAAATGGCCCATATGGGGTTTTTAGAAATTTGAATTTGCGGCAGATGTT
TCAAAATTAGTAGATGTCTCATTAAATATAGATTTCTGGGATTTACTCTTGCTACTGTGAGGGTGTGTGATCCTGTGTT
TGTGTTCCTCTCAGACCACTTTACTCATTTACTTTAAATTTCTGGTGCCTATAGCAATCGGGGTGCTAACACCCGGGGG
GATAAAAAAGGACTGGGGAATTCATGGCCTGTAAAACAAGGTTGGGGTTGGAGAGATATAAATATATCTGGAGAGCTTT
CATAGGGCAGAGCAATTAGACCCAATCTTTGTGTCCCCAAAATGTTAAACACTGGTATTAATAATAAGAAAACATATTT
CCATTAACCATATAGAATAACTATCTTATAGTGACTTGAGACTGGCTATTTTATTCATCTTTTGTTCATCAGTACCGAG
AAGAGTTTCTGACAATGTTTGTACTCAGCCACTCTTAACTGAATAAATGTGGCAAAACAGGTTGCGAGTGGTGAATTCC
ATTCCAGGAGCAGCTAGAATATATGCTCTTTGAGAGCAGAGATCTTTGTCAATTTTGTTTACAGCTATATCAGAGCACC
TAAATCAGTGCCTGCCATGTAGTAGGAGCTAATTAAATATTTGTAGATTTCATAATTGGAGATATTCAAACATAGAATC
ATGGTCTACTTGTCAGTGCTGTAGGAAAAAGTAATTAACAATATAAGTAGAGGGTCATGAAACAAGGGAAATACTGAAG
TAGATGACATTTAAAGTTACTGCCAACCCTGAAAGCCTATCAGACAGTGACATAGAATGGGATTATGTATTTTACATTA
AATATTAAGCATAGTAAAGTTAAAGTAGTGTAGGTATGTGTGGTAACAAAACTGAGAAAGCAGTTTGCCAGTTATTTAT
TTATGGTATGGACAGGAAATTATTGGCTAGATTTTAAATGAAAATATCCAATAGTTGAGATTTTTCTGATATTTAACT
ATATCTTATATCTTATGTCCATATTGATGACAGTGATTATTCCATTTTCAATCGTTTTGTGTCATCTAAGCAGCAGTTA
ATCATTCCTACGTGATGCAAATATACTTTTATTCCCTGGTATTTGTAATTTAACTTACAAAACACACGTTGCCTTGAGG
TTTGGCATGATTTGTTATTCTATCCTTCAAGAAGACCCATGATAACAAATCAAATCATTGAGAACTGATTTCAGTTTTC
ATTGTTTGGGGTGGTAACTGAAGGTGACGTTTTGAAAAATCATACTATAACTAACCTAGAAAATAATGTTCAGAGGCCA
ACATGTGGCAAAGGAACACATAGTTAAGTATATAGTTTTTAATAGAAATTCTATGCACCTTTTATTGTGAAGGTCTAGC
ATTTTAATATTTTCAAAATCCAGAAAGATGAAAAATTCTTTATAAACTTGAAGGGAAAATAAAAAGTCTAAAGCCCTG
AATTTGAGTTCTAGAAATGAATGTATTTAAAATGCAGTCCTGAGGTGCTGTATGCTAACTATGTAAAGCAATAGCTTAT
TAAATTCTTGGAAACTTGCTGTTTATTTGAAATTGGATATGGTAATAGATTTTTGTTAAATGTTATTTTATAAGGGATA
ACATTTTCTCCTGCTTAGTTTCAGGAAAAAAGAAAAGAAGCACTTAATTTTTAAAAGGTTAATGGATACTTAATGGTTG
GATTAGACCTATGCATCATCATGTTTACAGCACAGAACAATGGGAAAAATTTCTATTATGGAGCAGTGCCACATAACCT
TAATATCCTGTATCATCATTATCATCATTATTATGTGTTGAGTATACAAGCGTCTATCTCTGAGGAATACTTAGCAATT
TATGAATTTGTTTTAATTAGTTTTCTCAGCCTTCTCATAGGGCATGGGGGACATATTGCTTAACCCTAGTTTTAGAGCC
AGCCTTAGGTAAAATGGTGATGCAAACACTGTTTTACTTTGGTGACTCTTCTGCTTGCAGGGATACCTCCTTTTTGCAC
AGCACCTTATTTCTCCTTCTGTAAACTAAAGGAGAAAATTATTATACATTTTTATACTTAAAAATACGTAGTTGAGAAT
TTCAAATATATGCAAAAGTACAGAGAATAGTAATTGGTTGGCGCGAAAGTAATTGTGTTTTTTTGCCATTTAATGGCAA
AAACCACAATTGCTTTCGCCCAACCTAATATAATGCATCTTAAATACTCATCACCCAGTTTTAACAATTCTCGATATAC
AACTAGTTCTTGTTTCATCTGTACCTTTACCCATATTTCCTTCCTCTACAATTATTTTCAAATTCAATACACAATATTT
CTTCATCTGTAAGTCCTTTAGTATGTATCTAAAAATAGTCTTTTAAAAATTACCTCAATAACATTAAGATGCTTGTAAA
TTTTCCTAAAAAAATTTCCTAATAATTTCTTATTATCAAATGTAGCTGATTTTTAAAACAATTTTATTAAATAATTTTAA
TTTTTGGTATGAAATGGTAGCAACTAAGGTTAACAGATCGAAATCATTATGTGTCTGAATTCTCTTTTACACTATAAAT
TTCCTCTTTCTATCCTTTCTCTCTGCACCCTTTTAAAAAAACTGGGTCATACATCTTACAGAGTTTCTCATAGGTTCAA
TTTTGCTGATTGTATCTCTATTGTGTTGTTCAACCTGTCCTTTGAATTTTCTATAATTATTAGTTAAATCTAAAGGCTT
GATAAATGACTAATGTTTTATTATTTTGAGAGGATAAGCATATTTTGTTTTTTGTTTCCCCAGCTTTATTAAGGTATAA
ATAATAAATAAAAAATTGTATATATTTGAGGTAGACATGTGATGACTTGATATAGGTATACATTGTRTAATGATTACCAC
AATAAAATTAATCAATGCATCCATCCCTATAAATGGTTACCTTATTCTATGTATGTATGTGTGTGTATATGTGTGTGTG
TGTGTGGTAAGGATTAAGTATTAAGGATACTTAACATTTACTCTCTTAGCAAACTTAAACAATACAGTATTATTATCTA
TTGTCACCAAGCTGCAATATTAAATCCCCATAATGTATTTGTCTTATAACTGAAAGTTAGTATGCTGTGTCCAACATTA
CCCCATTTCTACCATGTCCCAGATTCTGGCAACCACCATTCTACTCTCTGTTCCTATGAGTTCAACTATGTTAGATTAC
ACATATAAGCAAGATCATACAGCATCTGGCTGTCTGTGTCTGGTTTATTTCAGTTAGCATAATGTCCTCCAGGTTTATC
CATGTTTTCTCAAATGGCAGGATTTGTTTTTCTTTTTACTGTTGAATAATATTCCATTGTATATACACCACAGTTTCTC
TATTAATTCATTTGTCAATGGACACTTAGGTTGGTTCCATACCTTGGCTATTGTCAATAATGCTGCAATGAAGACGACA
AGTGCAGACATCTCTTCAGCATGCTCCTTTCATTTCCTTTGGATATATACCCAAACATTAGAGTGCTGGATCATATGGT
ATCTCTATTTTTAATTTTTTGAGGAATCTTCATACTGTTTTCCATAATGGAGTTACCAATTTACGTTTTCACCGCAGTG
CTACAAGCGTTCCCAATTCTCCACATAGTCACCAACACTTTTTATGACCATCCTAATGGGTGTGAGAAGATACCGCATT

Fig. 6.132

GTGGTTTTGATGTACATTTCCCTGGTGATTAATGATGGTGAACACCATTTTATATACCTTTTGGCCATTTGTATGTCAT
CTTTGGAGAAATGTCTATTCAAGTCCCTTGCCTATTTTTAAAATGGGTTATTGGAGTGTTTGCTATTGAGTTGTAGGAT
TTTTTTGTGTATTTTGAACATATCAGGTACACTCAGCCCTTTGTATCTGTGGGTTATGCATCAAGGGATTCAATTATCT
GAGAATCAAAAATATTTGAAAAAACATAATAAAACAATAAAAATAATTAAAAAGTAATATAGTATAATTATTTACATAG
TGTTTACATAGTATTAGTATTATAAATAACATAGAGATGATTTAAAGTATGCAGGAGGATGTATGTAGGTTATATGCAA
ATACTATGCTATTTTATATGCAGGACTTGAGCATCTGAAGATTTTGGTTTCTGCAGAGGGTGGAAAGGTTGAACCAAT
CCCCCATGGATACCAAGGTAAAACTATGTATGGTTTGCAAATATTTTCTATCATCCATATGTAGAAAATATTTCATTTT
GCTGATTGTTTCCTTTGCTGTGCAAAAGCTTTTAAGTCTGATGTAGTCCCATTTATTTTTTATTTTGTTGCCTACACTT
TTGGTATCATATTAAAATAATAATCACCAAGACCAGTGTCAAGAAGCTTTCCACCTGTTTTCTTCCAGGAGTTTTGTGG
TTTAATGTTTTAATTTCTTTTAAGCACATTTTTGTATTGTATGTAATAAAATATGGATACAATTTCATTCTTTTGCATA
TGAACATCCAGTTTTCCCAGGAACATTTATTGAAGAGACTATTATTTCCCCATTGTATATTATTCATGCCCTTGTCAAA
GACTAACTGATTATATATGCAGGGTTTATTTCTGGGATCTCTATTCTGTTCCATTGTTCTGTGTGTCTGTTTTTATGCC
AGTACCTCACTGTTTTGATTACTATAGCTTTGTAATATAGTTTGGAATTAGGGAGTATGACGCTTCCAACTTTGTTCTT
CTTCTTCTTCTTTTTTTTTTTTTTTTTTTTTAGATGGAGTCTCGCTCTGTTGCCCAGGCTGGAGTGCAGTGGCATGATCT
TGGCTCACTGCAACCTCTGCCTCCCAGGTTCAAGCAATTCTCTGCCTCAGCCTCTCTAGTAGCTGGGATTACAAGCACC
TGCCACCACGTTCGGCTAATTTTTGTATTTTTAGTAGAGATAGGATTTCACCATCTTGGCCAGGCTGGTCTTGAACTCC
TGACCTCATGATCCACCCACCTAGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGTCACCACGCCCAGCCATTCTTCT
TTCTTAGGACTGCTTTGGGTATTCAGGGTCTTTTTTGGTTTCATATGAATTTTACAATGGTTTTCTCTATTTCTGTGAA
AAATTCCATTGAAATTTTGATAAGGATTGCATTTAATATGTAGATCCCATATGGACATTTTAACAATATGAAATCTTTC
AATCCATAAATATGGGATATATTTTCATTTTCATTAATGTCTTTAAGTGTAGAGATCTTTCACCTCCTTGGGTAAATTC
ATTCCTAAGTATTTTGTTCTTTTAGATATTATTAAATGGGATTGTTTTTCTTAATTTATTTTACAGATAGTTTATTGTT
AGTATATAGAAGTGCAACTAGTTGCTGTATGTTGATTTTATATCTTGTAAATTTGCTGAATTATTTTCTTAATTATGAC
AGTTTTTTAGTGAAGTCTTTAGAGTTTTTTTTTAAATATAGAAAATGTCATCTGCAAATCTAATTTGGATGCCTTTTAT
TTCTTTTTCTTGCCTAATTGCTCTGGCTAGGGCTTTCATTACTGTGTKGAACACAAATGGCAAGAGTAAGCATTCTTGT
TTTGTTTCAGATTTTAGAGAAGCAGCTTTCAGTTTTCCACCATTTAGTGTGATGTTAGCTGTGGGCTTCTCAAATATGG
CGTTTATTGTCTTGAGGTTCATTCCTTCTATTCCTAATTTGTTGAGAGTTTTTGTCATGAAAGGATGTTGGATTTTGTC
AAACACTGTTTCTGCCTCTATGGAGATGATTATAGATCATATGATCTTTATCTTTCATTGTGTTCATTCGGTATATTAC
ATTTTTTGATTTGTGTATATTGGATCATACTTGCAAATCTAGGATAAATTCCACTTAATCATGGTGAATTATATTTTTA
ATGTATTGTCAAATTCAGTTTGCTAGTATTTTGTTTAGGACTTTTGCATTTATGTTCACCAGGGATACTGCCCTGTAAT
TTTTTTTCTTATAGGGTCCTTATCTGATTCTGGTCTGTTGGTAATGCTGGCCTCATAAAATGAATTTGGAAGTGTTCCC
TTCTCTTCACTTTTTTTGGAAGAGTTTGAGAAGCATTTGTATTAATTCTTAAAATGCTTGCTACAATTCACCCTTGTTG
CCACATGGTCCTGTGCTTTTCTTTGTTAGGAGTTTTTTTTTTTAATTATGGATTCAATCTTCTTACTTGCTATTGGTCT
GTTGAGGTTCATGTAATATATTTCCCTATCCCTTTGCTTTCAGCCTATGTGTATCCTTAAGGCTTAAGTGAGTCTCTTA
TTGTCCCAATATGAGACAGCATTTTGTTGGATTTTTTTAATTCATTCAGCCACTTTGTGTCTTTTGATTGAATAATTT
AATCCATTTATATCCAAGATTATTATTTATAGGTAAGGAGTTATTACTGCCATTTAAAAAATTGCTTTCTGATGGGTTT
GTGGTTCTTGTGCTTTTTTTTGTTGTTGCTGTCTTGTGATTTGTTGATATTTTGTAGTGGTGTGCTTTGATTCCTTGTT
GTCTTTTCTGGATCTATTAGAGTTTTTTTTTTTTTTTCCTTTGTAATTACTATGGGACTTTCAAAAAACATCTTGTAGC
ATCTTTTAATTATAATATTTTATTTTAAGCTGATGACAAGTTAATTTCAATCACATACAAAAACTCTACACTTTTACTT
TCCCCCGTCATTTTGTGCTACTGATGTCATGCTTTGCATCTTTTTGTATTGCATATCCATTAACAAATTACTGTAACTA
TGGTTTATTTTTAATTATTTTACCTTTTAACTTTTATTCTAAATTTAGAAATAATTTATACATCACCATTACCACATGC
AAGTATACAGAATTTAATTATGTATTTACCTTTTCCAGTGAGTTGTATACTTATATATGTATTTATGTTGTTATTTAGC
AGCTTTTCATTCCAACTTGAAGAATCACATTAGTATTTCTTATAAGGCAGGTCTTGTGGTAATGAACATCCTCAGTTTT
TGTTTGTCTGGGAATGTCTTTACCTCTCCATTTCTGAAGGCTAACTTTGCAGGGTACAGTATTCTTATTTGACAGGCTT
TTTTCTTTCAATGTTTTGAATATATTATTCCATATTATTTATTTGTTATCCATGTAGGCTTGCATTGGTGTCTGTGAAT
TTGAAGAAGCAAACAGTCTTTCGGTCTTTACAGGCTGATTTTAACAACCTTCTCTTCCACCAATGGCAGACCTGTTATT
AGGTATGCAGATAGGCGTGGTTCCCTCTGGGTTTCTGGAGGACTCCCCCTGGCTCTCTGAGTATGTCTATGGGTAGGGA
GAACCGTCCCCAGATCAACATGAGAGAGCTTGGAACTAAGTCACTGCTGCTTCAGGGTCCACATCTGAGAGGACTTGCC
TCCAGGGAGTTGGATGGGCATACATCTCTGGGGACAAGATTGACCTTGGGCCAAGTCTAAGTGGGAATGGAGCAAAGTT
ATAGGGCCATCTCAGAATCTGCTGTGGAACCAAGTTTGGCAAGCCTGTCTCCGAGAACATGGATGGGAATGAGTCCTGA
CAGGTCGCTAAGTGGAGACAGGACTGCTCTCAGGCCACAGTTTCAGTTTTAGGATATCATAGTTAGCAGACAGCTCTAT
ACAAAACTCTACTCCTTTATATCTCTGCCCATTTATGTTATCAATGTCACATATTACAGCTTTTTATATTTTGCATTTG
TTAACATAGTTTTATATTTATATTTTATAATTAAGTTCTATACCAGAGTTAAAAATAATTTATGCACCACCATTGCAAT
ATTATACGATTTTTATTTGTCTAAATATTTACCTTTTCCTTTGTGTTGCTGTCTAGCATACTTTGTCTCAACTCAAAGG
ACTCCTTTTAGCAATTCTTGTAAGTCAAGTCTAGTGCTAAAGAACTACCTTAGCCATTGTTTATCTTTATTTCTCCTCC
ATTTTCAAAATACAGTTTTGCCAGAAAGAGTATGCTTGGTTGACAGACTTTTTCTTTCAGCACTTTGAATATATTGTCC
CACTCCCTTCTGGCCTATAATGTTTCTCCTGAGAAATCTGCTAATGTCATTGAAGGTCGCTTGCACATGATGAGCCATT
TTCTCTTCCTGCTTTCAGGATTCCCTTTTTGTCTTTGATATTTGACAGTTTGATTATAATTTATGTTGGTATGTTGGTT
TTTCCACGTTTGAGTTTTATCAGTGTCTTGAATTTGGTTGTTCATTTCCTTCCTCAGATTTGGCAAGTATCTAGCCATT
GTTTTTTTCAAATAAGCTTTCTGTCCTTCTCTCTTTCTATCATCTCCTTCTCAGATTTGCATTATGTGTATGTTGGAAC
ACTTGATGGTGTCCCATATGTTTCTTAGTCTTTCTTCACTTTTCTTCATTCTTCTTTTTTTCCTCTTTGTATCTCTGGC

Fig. 6.133

TTCATAATTTTAAGTGGCCTCTCTTTGAGTTCATTTATTCTTTCTTCTGCTTGATGGAGTCATCTGTTGAAATGCTCTA
GTGAACTTTTCAACTCAATTACTGTATTCATCTCCATGAATGTTTGTTTTCTTTTTGAAGTT TTGATATTCTCATTT
TGTTCCTGCATCATTTTCCTAATTTCATTTAGTTTTCTGTCTGTGCTCTCTTCTAGCACATTGAACTTCTTTAATATTA
TTTTTAATTATTTGCCAAGTAACATAAATTTTTATTTCTTTCTGGTTGGTACCTGGAGGTGTATTTTGTTCCTTTGATT
GTGTCATGTTTCCCTGTTTCTTTGTGTGCCTAGTTATTTTTTTCTGTGATTTGTGCATTTGAAAAAGCAGCCACCTCTT
CAGTCCTTATAAATTGGCTTCATACAGGGGAAGACTTTTACCAATTAGCCCACATAGAGATTTTGGGAGCCTCTCCAGT
TTTGTTTTGTTTTTTTTTTTTTTACCACGGGATACATCTTCTTTGAATTTGTGTGTGTTCTTTCCCAGTTAGAGTGAT
TTGCTTCTTTTTCTTCCAAGAGCTTTTAATCTCCTTCTCCGTCTGGTGTCTGTCTGTACCACTGCAGGTTCTGTGGCAT
TGCAATAAGCCACTGAGTTACCTTTTGCTCTCTGCAGACCCCAGGCATCCAAAGTATGTAGATTCCATTAGTGCTCTGA
ATCAGGCAAGACAGAAACCAGTCTCTCAGACAACACTCTGAAAAACCAGAACATTGGACATACATTCCACTCTTCTCTT
TCTCTCCTAAGGGAGAAGTCATAAGGTGTGATTTATTTTTCCTGATGACACCAAGCTGTGCTGGCTTGGAGGAAGGGCT
GTCATGGTTGACGTGAAATGCCTTTTCTCATCTGTTTCAATGAGACTATTATTTTCTTTAAGTTTGCCTCAGGCACTGC
AACTTCTTGACTGGTTTCTAGACTTTTCATAAAACTTTTTGGATCATATATTATTGCTAAGTTGGCGTCTCTGGTGGAG
AATTAGCTCTCTCGCTGATGAAACTCTACAGAATACTTTTACAGTATTTAATATTGCTCTTATTTCATCTCACACGTAC
ATAGTCACTTTCCTAACACTTATATAATTGTTCTCTTCCCAATAGCTAGTAGTGTTTCCTGTAACACATATTGACACAT
ACTAAGTTCTTATATAAGAAAATATTTAAGGGAATTTTGTATTTTTCCACTAAACTTTCTGTTGATTATTTGAAGGTAC
CACACTTTTGGTTGTTATTGTGGCTTCATGGTAAAATTTTATATGTATTAGAGCAAGACCGTAACCATGTTATATTTTA
TAACATGGCCTAATTCCTCCAAAAAGTAAAATAAAAAACTAAAAAAGAGATGATTTTCTTGCAATAACATTAAACTTAG
AAAATTATTCAAAGGAACATCAGTCTTGATTATATAAGTCTTGGAAAAGTTGTATAGATTTCTTAATCTAAGTTCTACT
TATTTCTTTCTGAGCTTATTTTTAAACATTTTGGTTTTGTTTGTTTTTATAAATGAGATGTTGGTGTGGTAATTTTAAC
AACTGGTCTTTGATTTTATAAATAAAAGCCTTTTGCATATTTTACTTTAAAACTGGACAAACTTACCTGACTATTCTTA
TTTTCAATTATTTTTCAGTTGATTTTTCTGGGTTTCCTACATTAAACTAGGTTGTAATCAAATAAGGATAAAGTTGCCT
TCACTTTTCTTATAGTTTTATGCCTCCTATTTCTATTCCTCACATTGGGTTACTGAATTTGTTAGAGGTTTTTGAAAAA
TGGGGGCAATGTTACATTTGGGCTAAAACTATGAACATTGATATCAGCTAAACCTGGTCTCAAAACTCTGAAGGATCCT
CAGTTAGAACTGAGAGGTCTTAAAAGACGAGGTGGCTAGAGGGAGGTCTGCACACACATTGCCATGAGTCCTCAGACCA
CATGAGACATTCTTTTTTGTCTGAAGCAAGGCTGGAGCCAGGCCTAGATGGCCTGTGGAAAGCTCCCATGGAACCAGCC
TGCTGTTCTCATTCCAGGCAAACTAACCTCTGTACAGTTGATAGTGTCACTATGGACAAACTAACCTGTTTAAGCTTCA
TTTCCAAATCTGTATCATGGGAATAGTAACAGTTTTTTGTACAGTTTTTATAAGAATCAAGTAGCTACCTATACAATAT
ATGTAATACAATAAATATTACTAAGTTTCTATTATTATCCTGATCTTAAGCATGAACCTATGCTTTACCAGTAGCTATA
ATGTTAAATATAAGTTTAATATAAACATTCTTTTGATCCATAGTTTGTTTATCAAGGGGATATTTTGTAGTTATCTGAA
TATCAAAGCCAAAAGCAAAGCAACATTTCTGGCTCTCTGCATGTGGAAAGGGAACTTAGCTTTACTTTGTCTCCCCTTT
CCTCCCACAGCCCAATATTTGTTAGTTTATTCTAGATTTACATACCCAGTTTATCATTATAAATATATCATCACTTAAA
TGATGGTTTTAGGTTTTTCTTTCATGTTTATACACATAGTTTTGATTGGTATTGGTATTTAAATAAAACTTGAGAATGA
AGACAATAGATCCTTTGTATTTCTTTTAAGGTTGTGATTTGACCCCTGGTTCCTCAAGTGAGAAACTTTTCAAAACACT
TGAGAGAGTAAACTGGCTGAGTTTTACCTATACTTACTGTAAGACATAATTTTTAGCTGCTAAAAAAACAATGTTAGTT
TCTTTTCTACACTTGGGATTCTATTACTGTATGTAACTGTGAAGGAAATAATTGACAGAACTCATGTTTTTCCTTATTT
TTTTTCCTTCCTCTACTAACAAAATAGAATTGACTTTATTTTTTAAAGTCAGCCAGGAAATGTACAATGCTATTTACAA
AAGGTTAATTGAATCCTAGAGTTGCAGATCGAGTTTCTTGTTGATGAGAATATACAGTAGAATATTACTGAATGAGAGA
TTTTTCTATTCCTTTTTTGGAAACTTTTTGGAAGTTTTGATGACTGAGTTATAGGAAATTGGCTTTAGAAGGACTTCAG
TGATTTCTGTCTCTTCTAATCAGTATGAAATCACAGCCTATATTTGGATTATGCTCTGTGAATGTTTGAAACCTATCTG
TTATCTTTGTGTTAACCTGAGGTAGAAATTTTCATTTTTATATAGAATTAGTTTTGCAAGAGTATCTTTTCTATATACA
AATATCCATTTGAAAATTGATTGTGTTAAGTCGATACAATGCCCTTTTCTATATTAAAGGACAGGATGTTTATTGCCTT
GACTTGTTTGTTTCCTGTAAAGTTATTTGGGCAATAATAGCATTCAGTTTTAAGATAAAACATACATAATAAGTAATGA
GACAAGAGGAAAAACATTTGGCATAAGGCTTAGAGAAATTTAAGGCTCATTTTCCATTATTGCTTTAGTGCATTATTAA
CAATTTCATGGGGACATGAAAGACTAATATATGGAGAAAATGTCTGCTATTGGCATATAATATGTTAAGATTGCAAATA
TGACTTTTAATCCACTGTGATAATAGCCTATTAAATTGTATCCTAGTCCTTGAAGAGTCACTAACATTATCTTGTTTAT
ACTACAAAATTAGGTACAGGGAAACTTTACTTTTACAGAACTTAATGTTGCATCAAACTAACTGGACAGGAAAAAAAAG
GAATGTGGCATTGGAAGTGATAAAACAAAACACATCCTCTGCCTATGACTGTCTTCTTCCTGGACCTATCTGACTATTT
AACATGCTGACCTTTACAATGCTCTGCATAGTGTAGGCTCACTGAAAGCACTGAGTGTCTGAAATCCTTCATTCTTATT
TAAAACAAAATAGGTGAAAATACTTAATCATGATGTCTATATATTTGAAAGAATATTTGAACATGGGGAGAGACCCAAC
CAGTTTGAGTGGCTGAAGTTTTGGAATTTTTATAGAAATTCCCTATTATGTGTTTCAACTTTATGCCTGACTTATAATA
ATAGTTACAAATACTACATTGCTAGTAACACCAATATCTAATACCATTTCCTCTTTCCTAATTTCTTGCAGTTGAAGAA
ATGGAGATGAGTATGTCTATATGCTTCACTCTTTCCTCAGCAAGATTTATTTAGCATATGTTTTGTTCCAGGCACTGGC
TAAGTGCTAGGGGTACAAAAGTTGTTTTGTCTCCCTTCCTTCCAGATGTGTCCATGTGTCCAGGCTAACAGAGTGAGTA
GTCACACAGGCAAATCATTCTCCTACAGTTGTCAGGCTGAAGGCTGACTTGGTGTCATAAATAAAAAGGCAGAAGATAT
TTGTATTCATTGTCTTGGATGATATTTTCAACTTGAGTAGGCAGATTGAAAAGAAAAATGCGGCCGGGTGCAGTGGCTC
ACACCTGTAATCCCAGCACTTTGGGAGGCCGAGGCGGTGGATCACCTGAGGTCAAGAGTTTGAGACCAGCCTGGCCAAC
ATGATGAAACTCCGTCTCTACTAAAAATACAAAAAATTAGCTGGGTGTGGTGGCAGGTGCCTGTAATCCCAGCTACTTG
GGAGGCTGAGGCAGAAGAATCACTTGAACTTGGAAGGCGAGGGTTGCAGTGAGCTGAGATCATGCCATTGCAATCCAGC
CTGGGCAACAAGAGCAAAACTCCATCTCAAAAAAAAAAAAAAAGAAAGAAAGAAAGAAAAGAAAAGAGAAATGGTTGAG

Fig. 6.134

GATAGCAGCTTGGACAATGCCTAGGTTTTAAAGACAGTTAATTGAGGAGCCAGCAATGAGACTAAATGAAAATGACTGG
AGAAGCAGATAGACAGAAAGCAAAAATAAATGTCCAATTTATGGGGTGATCTACATCTTTTTTTGTCTGCAACAGTCCA
GGTGTTCTCTTTTTGTCGATGTCACAACTGGCTAGCACTTTCTTTCAACTTGCAAAAGTGTTATGTACTCCAGTAAACC
CTAAGTTCTCTGTTACAGCTTTGATCATATACTGGTGATTATCTGTCTATTATATTTTTCCTCAAATGAACTGTAAGTG
CTTAAGCAAAAGGAGGTGCCTAATTCATCTCTGCATTTTCAGTACCCGACACAAGCATCAAAGGTAGTAGGTGCTCAAT
AAATGATTAATTGGGAAATTAATAGGAATGGAAACACAATTAAGATAGGTTGAACTCCTTTAGAGATATACACATAAAA
TAGTACTACCTGTAACAAGAAAATGCTAAATTTTTGTGGATTACCCCAACAGAAGATTATCTGTGGCTCGTGTACCCCA
AATTAAGTGTTTCTGATTGGCAAGTGTCTCTCATGTAAATAATGATTAAGAAACCATGGCTTCTTCCATCTTGTGACTC
TACCATCTTCAACACATGGTGAGGGGCTACAGAGGGGAAGAGAAATAGGGGGTTGTACTCACAAAATTTTTATGTGGCA
GGCCTGAAAGTGGCACATACACAGACCCATACACATTTCCTTAACTTATAATCAATGAGCATGTAATGTAACACTCACT
GACATCTCTATAGCTACCTGTAAGGGAGTCTGGAGATGTGGTCTCACTGCATGCCAAGAAAGAAACATTCTTTCCTGCA
ATGCCTATATATGTATATGTATAAATATATATATGTATATACATGTTTACATATGTATGTATATATATATGTGTGTATA
CATATACTGTATGTGTGTATATGTATATATACACACACACACACATCTTAAGGGGATTTTCTTATAGAAATTTTATTTC
TCCCCCCTCTCTATATATATATGAAATAAATATCAGAGACTGTGAGATTATTAAGAACCACAGAAATTTATTTAACCCT
AGTAATGTGCATGCCTGTGTTTTAAAGGCCATTAAGTAGTTTATTGTCTACTTTTGAAAGAAAAAAAATTAAACAAAGA
AATTAATTAAATATCTTGGATAAAAACTGAAACAAACAAAAAGGAAAATAATAATAATAAATTTAACATTCATCCATTG
TAAGTGTCAATTATTATGGAATTGCTTACTTTAGGCATGTATTTCAGAAAGAATTTTATGCAGTAAAAAGCATAACATT
AAAGTTATTTGTCTGTCAATTATTCCATATAAGTTGGCTAATTTTTGAATATAATTTTATTTTACTACAAGGTAGCAGG
TTCATATTACAGTTATTTCAATATGTGAGCATTTCTTTTATTTTGATATTGCATATCTTGAAGCCGAATATATTTCTAA
GTCCCATCAATAGCAAGGTGAATGTTGTATCATTTTATTATTATGACTTTTATTATACTTTTAAAATTGAAAAACAAGA
CATCTTTATTATAGGGAATACAGAAGCTCATAATTAATAAAGATACTAAAACAAAATTATTACCAATATTGCACAGGAG
AGCCATTTTAGAGAATTAGGATACATCCTTAAACAATTGTTTTATGAATATAATATGTGACTTTTTTGTTTTGTTTTGA
TATTATTGTTTTATAAAAATGGGAGCACTCTATAATCTGTTCTTCCCACTCAACATTGTGTCATTAACATGATTACGTA
TTCTTCTACATTATTTTAACAGCCTCATAGTATTTCATCATATGATGTATCAACATTTACTAAGCCAATCCTTCAGTAC
AGCAATTAGATTACATCCAGTTATTTGCTATTATAAATGAGCTGCAGTGAACATCTTTGTGCCTGGATATTTGCCAAAC
AGTTTTATTAAACTATGTCTAAAATGTCAAAACCATTAGTTCTCAAACTTTAATATGCACTGGAATGATACTGGTGACT
TATTCAGACTCATAAGCCCTACTCATAGAGATTGTGTTTAGGAAGATCTGGAATAAGACCCGGGAGTCTGAATTTTAGC
AAGCACCATCTATGATTCTAATGCAGAGGGTTTGAATGTCACATTTTGAGAAATAATGACTTGGAGACATTAGAAATAC
TATCTTTTTTCCATCTTCTCCCTGCCATAATGCCATTTTCTAACAATAACATAAGATACTTATTGCTCTGGTGATTAGT
TTTACATCTCTCTCCAAAATAAAGGCATTTAACCTCTTACCTTCTACCTGATAAGGTTGTTCTTTTTATTTCTGAACCA
TAACTGATACACATTGATCTAGAGTGTGAAAAAAGCCTCTTATACTGTTTTGGAATGGAAAATGTTAGAATATAGCCCT
CTAGTGCTTTATCATTTTTATTGTAAAGATAAAAGTATTTATAGAAAGTGGGTTTAAACTAACAGAGTATAAGCATGAG
TGTAAACTTCATTTTTAGTAGAGATAATTATCTCAAAAAAGTTACGTCTTGAGGCAGTTTTATCTAAAAAAGAATGTCA
AAAACATTAAGTCATTCAACAGATAACCTCAGTTATATAAAGCATTTTTGCAATTGCAATGCTAACACCCAGAGTAGGC
AGCTAAATGCTTATAAAAAGATGTTAACTTTGGCCAGCTATATTTAGTGCTACTGAAGCTTTGCTAGACTCATCCTTTG
TTCTTCTTTTCTATGTTCATCCAGAAGAAGAGTATTTACACATGTATTAGTCAGGGTTCTCTAGAGGGACAGAACTAAT
AGGATACATGTATATGTGAAAGGGAGTTTGTTAAGGAGTATTGACTCACACGATCACAAGGTGAAGTCCCACAATAGGC
GGTCTGTAAGCTGAGGAGCAAGGAAGCCAATTCGAGTCCCAAAACTTCAAAAGTAAGTAAAGTGGCAGTGCAAGGATCC
AAAAACCCATCACTCTGTAGAAGCATGTTGTAACATTTGATGATTCTATAATTCTCATCACACTCAAAAGTAGGAAAGC
TGTTTTCAGTCTGTGGCTCAAGGCCCAAGAGTCCCTGGAAAACCACTTGTGTAGGTCCAAGAGTCCACCTGTTTAAGAA
CAGGAGTCTGATGATCGAGAGCAGGAAACATCCAGCACAGAAGAAAGATGCAGGCCAGAAGACTCCGGCATTCCAGTCC
TTCCATGTTTCTCTGCCTGCTTTTAACCCAGCTGTGCTTGCAGCTGATTAGATGGTGCCTACCCACATGGAGGGTGGGT
CTGACTCTCCCTGTACACTGACTGAAATGTTAATCTTCTTTGGTAACACCCTCACAGACACACCCAGGAACAATACTTT
GTATCCTTCAATCCAATCAAGTTGACACTCAGTATTAACCATCACAACACATAAGTCATTAACTTAATCATGACCTGTT
TCCAATCCAGGAATGAAGTTCTGTTCTTAGAGGAACTTCCTAAGTACATAAGTACACAGAGGCTCACTTTCCCAATCTA
AAAGCTAAGACTGTTCCAAGTGCATATGCTTTCTGTTTTTTTCTATATTTGTTATCTCACAGAAACATTGATTTGCCAT
TGGTTCTTGCAAAATCAGTATTTTATAACTGGAGGTGGTGTTAAGGTTTATTTTGTATAACCTTTTGATTTTATCCCTA
TGGAGACTAAAGACCAGCAAGGTTAAGACCAGCAGATCTGGAACAGGTTATTATAGAAATTTGTATATTATGTTGTTGC
TAGCAAATGGAATTATTGCAAGGAGATGATGGAAAAGATAGTATTTCTGATATCTCCAAGCCATTGTTTTTCAAAATGT
GTTGTTCAAACCCTCCGCATTGGGATCAGAGGTGGTGCATACTAAAATTCAGACTCCCAGGTCCTATTCCAGATCTGCT
GGTCTTAGCCTTGCTTGTCTTTAGTCTCTGCAGACAAAAAAATCAAGACATTATACAAAATAAACCTTAAGACCCCTTCC
AGTTATGAAGTACTCTGATTTTGTAACAACCAATGGCACCTCTTAAGACCACCTGAGTAATTACTGGCAGAGCAGGGGA
TAAAATTTCTATCCTCTCATTTAATGACAGATTGTCATTCATTTCTAATGTTTATGTAGGGCTGCTCTCATCTCAGTTC
TGTTTAATTTTTCAAATGAAAATGTGAAGCTTATTGAGTTATGATCAATTAGTGTGTGTTCTGTTATTTTCTACTAATA
CTCACTCTGCCAGTGACTATACTTGTTAAGGTAGTGCAGCATGGTGGCTTTTAGCTCCAGTTTTAACTAGAAGAGATTT
GGGTTTGGATCCTGACATGTAGGGTGATCAATCATCCTGGTTTCCTTGGGACTGTGGGGTTTCCCTGGACATAGGACTT
TGAGTGCTAAAATCAAAAGGTCCCAGGCGAAGTAAGATGATTAATCACCCCACTAGCCATGTGGCTCTGTCATGATAGG
TCTCTGGGTTTTTTAATGGGTAAAATTGGAAAAGCAAGAAGAAGTAACTCATAGGATTTTAGTAAAAATTAAATGAGAC
AGTATATGTAAAACACGGCACTACTTAATAAAGACTCAGTAAGTATTAGTCATTATTATTGATGTTTTATAAAGCAAGT
AGATTCCTCAAAGCACAGATTCTCAGAATTTAGGATTTGAAATAAATGAACTTTCTTTTTAGCTTTGACCTCTTTTTTT

Fig. 6.135

TTGTTTGTTTTTTAAATCTTCTCAGTACCCTTCTGTCGTCTTGTCTATACAACTGGACAATACAACCCAAGGTTGGATA
GAGTCCACCATCTCACATCCTTTTACCTTTTTTCAAGATATAAATCAGGAAGACAAAAATTTTCTATTTGGGAATCAAT
GTGAAGAGTGAGCATCAAAGACAGCATAGAGCTATGGAGAAAGGGGAAATTAGCCTGGATTATAATAACAGCTGCCATT
TTGTTGAGTGCAAACTCTTTGCCAGATATTGGTGCTTCAAATACTTTATATATTTGGTCCACACAATGACTCCGAGAGG
TAAATATTATTATCTCAGTCTTCAGATGGAGAAACAACCTCAATGAGCCTAAGTGACTTGCCCAAAGATAGTTGTATAG
TAAGGAGTGTAATAAATGAGGTCTGGATGTTCCAAGCTCGATGAATGTCCAACTTTCAGCCAGCTGGTTAATTTTGAGA
AATATAAACTTCTTCACCTGTAAAACTCAGAAGGGAAGGAAATTGCCATATATGAGTGCTAATCCCAATGCAAGTAATG
AACTATGCACATCATATGCATGATCTCATTTAATTCTTGTATGTAAATATTAGTCCCATTTTTATAATAAAGAAACAGA
AGCCTTAGAGAGACTAAGCAACACACTATCAATACAAATAGTAAAGTGGCAGTGCAAAGATTCAAAAACCCAACACTCT
ATAGAAGCATGTTATAACATTTGGTGATTCTATAATTCTCAGTATGTGGATATAATAAATATTGCTAGAGTAGACTTTC
CAGCCATTTGGAAATAATTATTGCTCATGTGATAGTATATTTTTCTCAACTAGAATCAAAATATTAACTTTTGACCTGG
GTTTACCTTTGCATGTGGATAACATGGATCAAATTTGCAAAATTCTGCTGAGCTGTGACTTAAATACAGTTCTACTGGG
TCCTCAAGTTTCTTTTAAAGTCTTTTTTTTCTTACTACCCTCTCAGTCTTATAAAAATTGGCAAGAGTATATCTGAGTA
AATGTGACATATGAAAACATATGTTTCAAATATGGCCTTAAATATGCAGAAAAAATAGGACTTTTCTTCCTCTCTCTTC
ATGGGCATGCATGTAAGAAAGATATATATAAATATACAGTCATGTGCTATATAACATTTTAGTCAACTATGGACCATAC
ATACCATGGTGGCCATAAGATTATAATACTGTATTTTTACTGTATCTTTCCTATGTTTAGATATACTTAGATACACAAA
TATTTCCCATTGTGTTATAATTGCCTACAGTATTTATTACAGTAACAATGTACCATCTAGGTTTGTTTAAATACACTGT
GATGTTCACACAAGGAAATTTCCTAATGATGCATTTCTCAGAATGGATCATTATCAAGTGATGCATAACTGTATGTGTG
TGTGTGTATATATATATATATATATATATATATATGACACATGCATATGTCAATGTATATATTTAATGATGTTTGCAAT
TCATTTCATAGAAGTTATAAAAACATTTTGATTTATCCTTGATTTTATAGAATTCACACACAAAGCTAATAAATTCTAA
GATTACTGAAGATGTTAGTTAACTGTTTTAACCAAGCCACACCTGGTGAACAAATTTGCTATTTTAAAAATAAATTTAG
ATTTTAGTTAATCAAATATTGTTCAGTTAATGTCACTGTTTTCTAGATAGCATTTTTCATGTATACATTTTACTTAATT
TCTTTCCCAGGAAAGTATTAAGCCATTATGTAATGATAAACAGTGTGATTTTTGTTGATTATATGTACTTTCTTGAATT
ATTACCTCAGGCCTCTGAGGAAACACTACATTCCAGTAATGAAGAGGAAGACCCTTTCCGCGGAATGGAACCCTATCTT
GTCCGGAGACTTTCATGTCGCAATATTCAGCTTCCCCCTCTCGCCTTCAGACAGTTGGAACAAGCTGACTTGAAAAGTG
AATCAGAGAACATTCAACGACCAACCAGCCTCCCCCTGAAGATTCTGCCGCTGATTGCTATCACTTCTGCAGAATCCAG
TGGGTGAGTGCCCTCAGATGTCATTTCCCCATTTTATATTTTAGATGGTGATTGTTGTCTGTGGTCTTTTGAGTTTTTG
TGGCTCATTGCTTGATTTGAGTGGGAGAACAATGGGGTTTCTAGAGTCAAAAAAAAAAGGATGAATTTCTCAGGTGACA
TTTCTATATCTGCAGGAGAAGACATTTTAGTGAAATTGTTTTACATGGAAGAGCTGAAAATGTATTGGTGAATGCTAAT
AAACATTTGCCAAAGGGCAGTTGTACTTGGAAAATTAATATTGGCCATATGTGACTTGATAGAAGACATTTTAACAAAT
GAGAACTAATGGACAAATTACCATGTAGTGATACATGTCTAGAAACAATAGGAAATGTTCACTGATGCAAAATGAATTT
GGAATCAAGAATAAATTGTATTGTAATTAGAATCAAAAGAAATATGCAATGGTATTCATGAGTCTAAAAATTTTGCCTT
TGACATTTTGAGGTATTGCTTACCAGAATACTATTTCAGCTCCCAGTATAAGGTGATTTTATTTAGCATTAGTACTTAT
AGAGGAGTCAGCCACAGCCACGTCTCCATCATGTAACATTTTTATTTCCTACTTTGCAGGGTATAATTTTTGTTTTTAT
TCTTTTTCGTGTTGTTTACCAATGGAGTTTTACACTTTAAAGCAATGTCACCAGTTTAAAAATTGTGAAAGAAAGTAAG
GATATTGGGCACATCAATTATTTGTTCTTGTGACCAGCTGCATTTTTAAGAAGCCTGGATAGAAAGGAAAGAGGATGAA
GCCAGTGGGCCATACATAGATAGACTCTTGAACATTTGCTAAAACTACAAGAACAAAACAATTACTATGCTACAAATGT
GATGGTCCCACATTCTCTGCCAAGTTAAAGGCATCTCTGGGGAAAATGTCTTTTGGATCTTGTTAAAGTTAGGAAGGTT
GTGCTCAGAGGAAATTTGGCTAGTAACTCAACTCAAAGATACTGAATTTAGCTGTTTTACTTGTTATTGACCAGTCTAA
GGGACCTGTGTTAGAAAAAGGTATGAGGAAAATACTACTAGATAAATAATAAGAAAACAAATATTCACCTTGAAGCAAT
GAAAAGAGGAAATATATATTTGTTTCTGTTGTTGTAATTGAACTATGTGTTTAAAGAAGAATGCACACACATTGATCAGA
CTCATACTAAAGCAGATGGGAATTTTATATGACAGCTTGACCTGAACATTTTTTGAAAAATGCTGTTCCCCTGAAACTA
TTTCTCCTTTCTTTGGAAATAACATTGCTGCCGTTCATTCTGTGTAGAAGAGATTCACAGATATCAGGTGTATCCAGGG
ATCCCAAGATCACCCTCGGGTTCAATGATTTGCTAGCAGAGCTCTCATAATTCAGCAAATAGTCATATTCATGGCTCTG
ATGTGTTATAGCAAAAGGATTCAATGCAAAATAAGCAAAGGGAAAGGTAGATGGAACAAAATCTGGAGGAAACCAAACA
TAAGCTTCCAAGAGTCCCCAAGTGAAGTAAGACAAGATACACTTAATTCCTCCAGTAATGAGTTGAGACAACACTTGTG
AAATGTGTTCACCAGGGATGCCTTTACCAGGGAAGCCTATTAAAGACTCAGTACCTAGAGTTTTTACTGGAGGCCAGTC
ACTTAGGTACCCTCTGCCTAGGATATACAAACTTCCAGATTTCCAGAAGGAAAGTGGATATGCAGCATAAACCACATTA
TTTGCACAGACAGTTTAGGCAAATTGAGCCAGTCTTACCATTTAGAGAATGGTGGATCACTCCTGAAAGTCAGGTCTGC
TAAAGGCCAATGTTTCAAACAGGTCTTCCTATATTTAATTGACACAGTCCTGATTAACTGTTTACTACACACCAGGTTA
TCTTAGAATAGTTATCTTACTTTCTTCACACTTGTGGAAGAAGAGATTATAATTAAAATTAAAATGCACTAATTTAAAG
CCCTGATATATTCAATTAGCTTTGGTATCTCAAAAATTTGGTTGCTAACCATGATTTCTCATTTTGAGTTGGTGTTAT
ATCATGTGCCCTTAAAATAAAATGATGCAATATACCTAATATATCTCTATGTAGTTGGATATTGTGTGTAATCTAAAAT
CTTGAGCTGGGCGCAGTGGCTCATGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGCAGGGATTGATTGACCTCATGAA
TTTGAGGCAAGCCTGGGCAACATGGCAAGACCTTGTCTCTATCAAAAACACAAATAAATAACTGGGTGTAGTGGCATGC
GCCTGTGGTCCCAGCTACTCAGCAGGCTGATGCAGGAGGATCGCTTCAGCCTGCTTGAAGGCAGAGGTTGCAGTGAGTC
AAGATCCTGCCACTGCACCCTGGCCTGGGTGTCAGAGAGAGAATGTATTGCTAAAAACAGTTTCCAAGTGCCAAGGAAC
TTCAGGGTTCCGAATTGTCTATGTCCCAGCATTTCTGTTGATTCACATTCATTTCCATCTTCATTAAGATTTAAGAATC
AAGTACAATTGACCCTTGAACAATACAGGTTTGAACTGCACAGGTTCCTTTATATGAGGATTCTTTTCAACCAAACACA
AATGGAAAATATAGTATTCCTGGGATGTGAAACTCATGTATACAGATGGGCTGACTTTTCATATATGTGGGTTCCACAG

Fig. 6.136

GGCCAATTGCAAGAATTGAGTATGCATGAATTTTGGTACATGTGGTAGACCCGAAACCAATCCCCTACATATACCAAGG
AATGACTATGTAAGCAATGTCATGCTTACTATTTACAAATTTATCCAATATTATGAAGAAAATAATTTTTCTTTTTGAA
AGATGGAACAAGGGTTTCATTTCAAAAGAAACAATAGACAATAATGGCCAATCAACAAGAACCAAACTAAGTAGATATT
AAAGGTATTGTTATTACATTTGGAAGCCAGAACAATTTGCGAATTGAATATTGAGGACTAGAAAATTCAGGAGTATAAC
TTTCTGGAATGTCGAAGCTTTGGAGGAGAAGTAGAAGGTAAAGTGCGGGGCCAGGTGCAGTGGCTCACGCCTGTAATCC
CAGCACTTTGGGAGGCTGAGGCGGGCAGATCACAAGGTGAGGAGATCAAGACCATCCTGGCTAACACGGTGAAACCCAG
TCTGTACGAAAAATACAAAAAAAAATTAGCCGGGCTTGGCAGTGTGTGCCTGCAGTCCCAGCTACTCAGGAGGCTGAGG
CAAGAGGATGGCGTGAACCCGGGAGGCAGAGGTTGCAGTGAGCCGAGATTACGCCACTGCACTCCAGCCTGGGCGACAG
AGTGAGACTCTGTCTCAAAATAAAAAACAAAAAACAAAAAACAAAAAACGAAAGGTGAAGTTCGGGCTTATATTCTGTA
GCCATTTTAGTTAACCAGGAGCCCCAGATTCCTTTACAGCTGTCAGAAAGAGCTAATGGGAAATTTAGCCTATTTTAAC
TGAGTTGTCTCCAGCCCATTGCCTCATTATTAAAGGTTAGTATGCCTTTAAGTCCCATTGCCAACCTATACTGAGACCA
TACCTTAGCAATTGCAAATCTTTGATGGTCAAGGCGACTTTTCATGCCCTCCAGATTTATTTTCCTTTCTTTCTTAACA
TCATAGCCTTTTGCTCTTTCTTCTGGCATATCAGTATGCCAGATACTTTCTTTGTCAAGTGTCAGGCAGTGGGTCTAGA
GACTTGTACCACCCCTTTAGAAAGCCACAGTATGGCCCTGAGAATCATTAGTTTCTGAAAAAGAACTTTGATGTGCAGA
AATAAGTGTCGTAGATGACAGCTATTAGCTTCCTCATGAAGTACTTGGGTCAAGAGACTGAGTTCAAAAGGACTTTTAG
TTATTCACACTTCCATATTTCTACTTTGACTTTTTTTCCCAAGCAATGCGAATGTGTTCAAATGTACACTTTTTAACAA
TTTCTTTTGAGTATGCCCAAACTGTTAGGTTGTGTGTATGCTGTGATTTAGCAAACTTAAGAAACTGTAAATGAACAGA
AAACAGAATTATTAAGACCTGGGATGCCTATAACCCTGAATTCATCTGCCAGTTAACTTTCTGTACAGGGTAGGCGAAT
TCAGGCTTCATGGCTGTTTACTGACCTTCCTCGAAGTAAGAGAGACAGCTATTAATGACTTGAAATGTTATGAACGTGG
CATAGAAGTAATTTGGAAAGTCAGTTTTTCATATTTTCCTCCTAAATAATTTCTATTACCTTTCATAAAATCTTTTTA
TTAAGGTATAATTTACATGCATTATACATCTTGAATTAATATGTATTTATACTGTCATGTAATCACCATCCTATTTCTC
AACTGATCACTAAAGGTTATTTTGCCTCCTCTTGGACTTCACATAAATGGAATTGTACTGTATGTACTTGTTGTGTCTG
GCTTCTATTAGTCAAAATTTTTTTTTGATATCCATGTTTGTGTATATCTCAGCAGCTTGTTTTTATTGCATAAATATAG
CATAATGTATTTATTTTTACTCTCTTACTAATGAACCTTTGGGTTGTTTCTAGTTTGAGGGGATTATGAATGAAGCTGC
TATGTACACTTATACCAGTCTTTTTGTGAATATATGCACTCATTTCTTTTGGGTATATTCCCAGGAGTAGCATTTCTGA
GTCATAAGGAGGCAAATATTTATTTTCATTACTGCCCAACAGTTTTCTAAAGTGTTGTACTCTTTTACCCTCCCACCAG
CAATACGTAGTAGGTACAGTTGTTCTACATTCTCACCAACACTTAGTATTTTCAGTCTTTTTCATTTTGGTCATTCTGG
TGAATGTGTAGTGGTATACTACTGTGGTTTTAATTTACATTTCCCCGATGAGTAGGAATATTGCTTACCTTTTGATGTG
TTTATTGAACATTTGGATATCTTCTTTGTGTTATGACCATTCAGACATTTGTTCAGTTTTTATTTTACTTATTGATTTC
TGAGGGCTCTTTGTATATTCTAGACATGAGTATTTTGTTAGACATGTGTATTATAAAGTGAATATTTTGTTCTAAACAG
TGTCTTGAATTTTTACTTTATGTTTACTTTGAATATGTTGGTAATCCTAGGGACCTGTGAAATATGAGGGAAGTGTGCA
GCAGGGAGAGGAAACTGTAAGGCAAGAAGTGGACCCACCTTAATAAGGGGAAAACAAGAATGACATTTAACCTGCAGAG
CAATTTCACTTGGAGACAAGGACAGCTGGTCCCTTGAATATTGGATGGTGGCAAATAAGACATCCAAGCACTAAGAGGG
CAGGCAGAGAAGAGTTGAGAATGAAGCAACAGCATGCTTATGGTGGCTGATGGCCGGGTAGTGAGTAGACAAGAGTGGG
GCTCTGGACATAGATGGTCTGAATTTGAGTCCTGTCTCCCACCTACTACCATCTTGTGAAGGTACTTAACCACTCCAAG
TTCCTAATTTTAAAAAAGCAAAAGTAGGAATAATGCGAGCACCTACTTCATGGGTTTGTTCTAATGGTATACTACCTAT
CCCCATTTTTCACATATTGTGAATACTTAATATATAACATCAAAAACTGCAACTCCTATGCTGGGAAAATATTAGAACA
AATAATGTTTGTTGTTGTTAATATTTGTTTACTTATTGGAATTGGCTTCAGAGATACTCTACAAATAACTCTTGGGGTA
GAGATGGATGTTCTAGCAGATTTGGGAGTCAATCAGAAATTGGCTCCTGTTTCAGAAAGTTACAGTTATTATGGACTTG
TGACATTTCTGTTCAGAAGTCTGTATCTGGCATCTTCCCGCACACATGTCTTGCTTTCAAGTGCTGTTCAGTTATGTTT
GGAATGAGAATGGTGGTCTCCCTACTTCTGCTTCACTTCTTCCACAACCTTGCTGACTTCTAAATAGTTTCCTGCTTAG
AATCCTTAGGAGGAATTAGGATCTCCTTTCAGCCCTATCTTGGGCACTGACTTACATTCCCACATGTGGTCCATGTGCC
CCTAGACAATCTAAGGAGAGTCTAGCTTGCCACACATGTGGAAATCATTCCCAGTTCACAGGTGGGAAGTTATGGGAAT
GAAGAAAATGTGGGGGAGGTAGCAATAAAACTCTCTACTTACATTTCATTGCTGCATCTGCTATAATAAAATGAGAGCC
AAGAGCAACTTATTCCCTTGTGACATGATGACACACCTCTGGATAGATGTATATTCAGGGATATGGGTGGGTGGAGAAT
GTTACAAACACTTTCTCATCCCTAGTATCCTATTACCTGTCTGAAGAAGTACACTGTGTACCTTCGTATCACTATGTCC
TATAAAAAAAGAAAATGAAAAGAATGTAAAAGAAGACATGGTCACTTTTGGGGATAAATTTAACTACCCAACAGAGAGA
GAAGAATTACTTTATTCATATAAGGGTTCATTTTACAAGGATCTTCCAGAAATATTTCCTTGATTTGTGTGCTATTCAC
AGAGGGACTGGTCACAGATGCCAGTTAGACATTGGATTCTTTGACTAACCACTCTTCATCTTGTGCTCTTGAGTACAAA
CAGTACGTTAGAGAGAACATTAAAAAAAAAGATTGTTTTCAGCAATTTATTCCTGAATCAAAATCCAAACAGAAAATAAA
AAAGGAAAAACAGAAGGCTGGATCAGACACATCTGATCTTTCAAATTTGGCCTTTTAAACTTAAGAAGGTATTAATGGG
CATTTCATATTTTAAATAATTTGGATATAAGGGTGTTTATAAAGCTAGAGATTGTATTTCACAGTCTACCATGAAGCCT
GTACCTTCATGTTTGATGTATGTTCAAGCTTTAAGTGATTTATCTAAGTTCTTATTGAATGTTATATGGAAGATCTATA
ACCCACTAGGCAAAGCTTCCCAAAATTGAAAATAAAACACATAATCATGATTGTGAAACATTCTGTAGAAATATAGTAT
TCTTGAGCTAGATGAAATTTTAAAAGTAATCAATGCCAAAAATTGGGAAACAATACTTCCAATAATCTTGAAGATGCAT
ACTAAGCAGACAAAATTGGATTCTTTTGGTTTTGATTGATTTACATGCAATTTATGATTGTAGTGTTTATCTAAACTTC
TCAGGATACTCACAAAATATCACAAGCCTTTTATTTTAAAGCATTGTTCTGATTTAATCTTATCTGTCTTTGCCTTAAA
CTTTGTAAATTTGTGATTATTTTTGTTTTGTTTTGTTTTGTTTTGTTTTTGAAACGGAGTCTTGCTGTGTCACCCAGGC
TGGAGTGAAATGGCGTGATCTCGGCTCACTGCAACCTCCGCCCCCCAGGTTCAAGCGATTCTCCTGCCTCAGCCTCCCA
AGTAGCTGAGACGACAGGCATGTCCCACCACACCAGGCTAATTTTTGTATTTTTAGTAGAAATGGGGTTTTGCCATGTT

Fig. 6.137

GGCCAGGCTGTTCTCAAACTCCTGGCCTTATGAAATCTTCCTGCCTCAGCCTCCCAAAGTGCTGGGACTACAGGCGTGA
GCCATCATGCCTGGCCCCAAATTTGTGATTTTCAAAATTAAAATTAGATTCTAAGAGTGATGGAGCACTTTAAAATATC
TGGATAAAAATCATCTTATTTCCAGAATCAGGGCAATTCTTGAATCTAATCTAAAATAAGCAATGTAAAAATGCTGACT
TTTTTCTCACCTATCATAGACTCTCTAAAAGGTTTATGCTATATCTGCCATGCCTTCAATTTACAAAATAATATGATCA
TGATTAAACTCCAGTGTCTTTTTCAGGTTATCACAGTACCTTTTCATTATTGTAGTACATTCTGGTGTCCCCATTAAGG
ATATGCTGAATGGACTGATACTATACCACAGTATTTTACTTTATATCTGTGTGTCAGTAAAGCAGCATGTACCAGGGGA
AGGTTTACCTTTAGAAATCAAAGGCTTCTATTTCACCAGGCTCCCACGTTGTTAAAAACACTAAAGAGGGTGACAACTT
CTGCGTTCACCAACATCAGAGCATCTAGTCCCTATTTTCAAAACTTTCTTGTGCCAATATGACTTGTTTTAGTAATAGA
GATTGGTTGGGGAATCCCATATTTTTTAAGGCAAACCCAAGGAAGCATTTATTTTACCGTGAAAAGTGCTAGGGCACAA
TACTATATTAAGCACAAGGCAGAACTCAACAAAGCCCTTTCCTTTGATTATTTCCATCACTCAATAATAATTGTTCCAC
TCCATAGATAGTTTCTTTGCAACAAACACTGCCCTGGCTGACCATCCTTCTGTAATGCAGAACTGTGAATCACTGAAGT
GTTTAAGGAGAGCTTATAATTCTTTAAAAGCCTTTTTATTCTGTTTTACAGTATTTGTGTTTATGAAAAAAATGCAGGT
AAAAATATTCTGACCAAATTGTATTTGTTTAATTATTATGTATTGCATAATGTATAATACTGATTCAAACTTAACATGA
CCAGAGTGCATTGCTTGGAGAAATCCAAAATGAAAAATATATTTTCAGTTGAAATTCATTAAAGGATGAAGTAATCAAA
CTTTTTTTCTCTACAAATGAGCACTACAAAATGGCAAAAGTTTTCTTTTAAAAAATCTGTATATAGAAAAAAACTATAG
AAAAAATATATCACTTCTTGGGTTAAACACACTTCCCCCCAACCAAAAAAAAATTCTAGGTACTTAGAATTCTTTCTAG
AACTTAGAATTTCCATATTATTTTTCATCCCATTTCTCTCATTCATTTAGAATCTGCCCTCCAGTTGAAAGGAAGTAGA
TGGAGCCGGGCACTTTTAGATTATTTCAAATCTGAGGAATTCAACAAAAATAAATGCTATTTAGTTATGTTGTTTGAAG
TCATGTATGCAACATATCTGGATGATGGGTCAACTTTGTTTAATAGATTAGCATCATTTACACTGAAGTTCGTGGCTCT
GAGCTTCGTTAAAGTGAGACCTTTGTCCACATTCCCAGGAGGGCTTTTTCTCAGGGGGTTCTGAATTTTACCATGACGT
AATTCCTAAACAGTTGTGATTAGTGCTAAATGTTATCATAAACACACACACACACACACACACCCCTTGCTGTGTGAAA
GCTAGATATAGATATTAAAAACTTTAGAATACTTGTTTTTTAAATATGTAATTTATAATATATAAATAATATTTAGAAT
ATAAAGTTTATAATACATAAATACTATACTTCTTTACCATTCACTTTCTAGAACTTTCCCAGCTTTTGATCACATATTT
CAAGGGTGGTCTCCCTCTTTACTCCTCTACTAACTCTTCTGTGTCTCAGTTAACATGTGATTTTGGCTTTCTTATTTCT
CCAACATTATTTAATTCAGACTAACTTTATTTCTTGAAGGTATATACCAGACATACCTCGGAGATATTGTGGGTTCAGA
TCCAGGCCACTGCAATAAAGCAAATATCACAATAAAGCAAGTCACACATACTTTTTGGCTTTCCAGTGCATATAAAACT
TATGTTTACACTATATTGTAGTGTGTAATAGCATTGTCTCTAAGAAAACAATGTACATGCCTTAAGTAAGAAATACTTA
ATTGCTAAAAAAAAAAATGCTAACAACCATTAGAGCCTTCAGCAAGTCAGAAACATTTTGCTGGTGGAGAGTCTTGCCT
CAATGTTCATGACTGCTGACTGATCAAGGTGGTGGTTGCTGAAGATTGGGGTGGCTGTGACAATTTCTTAGAATAACAC
TACAGTGAAAATTGCCACATCCATTGATTCCTCCTTTCATGAACAATTTCTCTGTAGCATGCAATGGTGTTTGACAGCA
TTTTACCCATAGTAGAACTTCTTTCAAAATTGGAGTCAATCCTCTTAAACGCTGCTGCTGGTTTATCTACTAAGTTTAT
ATAATATTTTAAATCCTTTGTTGCCATTTCAACAATGTTCACAGCATCTTTACCAGAAGTAGATTCTGTCTCAAGAAAC
CATTTTCTTTGCTTCATCCAAGAAACAACTCCTCATTCTTTCAAGTTTTATCATAAGATTGCAGTAATTTCATTACAAC
TTCAGGTTCCATTTCTAATTCTAGTTCTCTTGCAATTTCCAGCACATCTGCAGTTACTTTCTCCACTTGAACCCCTCAG
AGTCATCCATGAGGGTTGGAATCAATTTCTTCCAAACTCTTGTTAATGTTGATATTTTGACCTATGCCTATGGATCACA
AATATTCTTAATGGCATCTAGAATGGTGAATCCTGTCCAGAAAGTTTTCGACTTACTTTGCCCTGATCCATCAGAGAAA
TAAGTGTCTATCATAGCGATAGCCCTATGAAATGTATTTCTTAAATAATAAGGCTTAAAAGTTGAAATGACTCCTTGGA
ACATGGGCTTCAGAATGAATGTTGTGGTAGCAGGCATGATAACATTAACCTCCTTGTGCATCTCCAGCAAAGCTCTTGA
GTGACTAGGTGCATTGTCAATGAACAGTCATATTTTGAAAAGAATCTTTTTTTCTGAGCAGTATGTCTCAACAGTGGGC
TCAAAATATTTAGTAAACCATGCTGTAAACAGATACACTGTCATCCAGTCCTTATTTTTTTATTTATAAAGCACAGGCA
AAGTAGATTTAGCACAATTCTCAAAGGCCCTAGAATTATTGGAATATTAAATGAACATTGTCTTCAACTTAAAGTTACC
ATCTGCATTAGCTCCTACCAGGAGAGTCAGATTTTCCTTTGAAGCTTTGAAGCCAGGCATTGACTTTTCCTCTCTAGCT
ATGAAAGTTGTAGATGGTATCTTCTCCCAATAGAAGGCTATTTTGTCTCCACTGAAAATCTGTTGTTTAGTGTAGTGCC
TTCATCATTGATCTTAGTTAGACTTTCTGGATAACTTGTCACAGTTTATACATCAGCACTTGCTGCTTCACTTCACACT
CCTTTTTTTTTCCAGCTTTTATTTTAGGTTCAGAGGGTATTTATGCAGCTTTGTTAAATGGGTAGCTTGTGCACCCTGT
ACTTTTATGTATTGGAGATGGCTTCTTTTCTTTAAACATCATGAACCACCCTCTGCTGGCATCCAACTTTTCGTCTGCA
GTCCTTAACTCTCTCAGACTTCATTGAATTAAAGAGAGTTAGGGCCTTGTTTGGGATTAGGCTTTGGCTTAAGGGAATG
TTGCGGCTGGTTTGATCTTCTATCCAGACCACTGAAGTTTCTCCACATTATCAATAAGGCTGTTTGGCTTTCTTGTCA
TTTCTGTGTTCACCAGAGTAGTACTTTTAATTTCCTTCAAAAGCTTTTTCTTTGTATTCACAACTTGGCTAACTGGTAC
AAAAGGCCTGGCTTTCAGCCTGTCTTGGCTTTTGACATGTCTTCCTCACTAAGCCTTATTATGTCTAGCTTTTGACTTA
ATGCGAGAGACCTGTAACTCTTCCTTTCACTTGAACACTTATAGGCCATTGTAAGGTTATTAATTGGCCTAATTTCAAT
ATTATTGTGTGTCAGGGAATAGGGAGACCTGAGGAAAAGAGAGAAATTGGGGAATGGCCAGTCAGTGAAGCAGTGAGAA
TACATGCAACATTAATCCATTAAGTTTACTGTCTTACATGGGCATGGTTTGTGGCACCCCAAAAATTAAAATAGTAACA
TCCAAGACCACTGATCACAGATCACCCTAGCAGATATAATAATAATGAAAAAGTTCATAATATTCTGAGAATACCAAAA
TATGACATAGAAACACAAAGTGAGTACATGTTATTGGAAAAAATGGTGCCAATAGACTTGCTTGATGCAGCATTGCCAC
AATATTCAATTGGTAAAAGCACAATATTGTGAAGTGTGATAAAGCAATGTGTTAGTCTGTTTTGCATGGCTATAAAGGA
ATACGTGTGACTGGCTAATTTACAAAGAAAAGAGATTTATTTGGCTCATTGTTTAGCAGGGTGTCTGGGCAAGGCACCA
GCATCTGCTTGGCTTTTGTGAGGCTTCAGGAAGCTTTTATTCATGGCAGAAGGTGAAGGGGGAGCAGCTTTGTCAGATG
ACAAGAGAGGGAATAAGAGAGGGGGCAGGTGCCATATTCTTTAAACAATTAGATCTCACAATAACTCATGACCACAGGG
AGGGCACCAAGCCATTTATGAGGGCTCTGACCCCATGACCCAAGCATCTCCCACTAGGCCCACCATCAACATTGGGAAT

Fig. 6.138

CAAATCTCAACATGAGATTTGGAGGGTATAAATACCCAAACCATATCAAGCAAAGCACAATAAAACAAGTATGCCTGTA
TTTATACACATATTACAAAACAGAATTAAAAACAATAAAATCATACATGCAAGGGATTCTGGTAAATATACTGATCCCC
TCAATCATGCATTAGTCATATATTAATGTATTCACTTTATATTCAACCAACAAATAGTGAGAGTCTGATATTTGCTGTA
TACTGAGGTATGCACTGGCGACCCAAGGCTCAACAAGACAAAACACAGCCTTTTCTTTCACAGGGGATTGAATCAAGTA
GGGCACGTGCAAGAAAATAGACCACTATAATCTTGTTTGTTTCATATAATGTACAAATATGACTGCAGACAAATGGAGA
AATATGAAATCTCACTGGGGAGCAAACTCACTTTGGCTTGTGAGGAACTAACACCTAACCTGAGACCAAAATAAGATGG
TTCCAGGAAGAGAGAACAGCAGGTCAAAGTCCAGGGATGAGATTAAAGTAGAGTGTCTGCACTTAGCTAAATAAAAACT
GCTAAAACATGGCTAGACCAGAATGCCAATTGAAGGTACAGTTGATAAAACTTACCATTAACTTTTCATGTAACCAATA
TGTGAGGTTTTGTAATATTTTCCAGTATGCTAAGCAGCTATGATATAAACACTGAAAAGGCAAACAGTTGGATTATTCC
AAAATTGGAAAGCAGGTGCAATATAAGAAAAATAGGGCAAGGGATTTGAAGGTATTTGAAAGAAAGTGATAGAAATGAT
GAATTGTGGCAACTTAGCTGGTTATGGAAATGAGTGAATATAAGAAGATACTGATATAGAAAGTATTCAAGGTCTCTAG
AAATCTCTATGATGTCAAACAGGTGAATTAGAATAACTGAGCAAACAAAAGATAGATCATATTTGGAGGACAGAATGAA
CTTTAAGATGTAAGTGCTAGAGGTAATTTAAGGTATGTTCAAGACATAGAAGGGTGTCAGGGAAGAGGGTGACTGCCTT
GGAAAAGATGTAGCTGAGGAACTGAGAGATCGGGGCATGAGGTGATGCCTCCACATCAACATCAAAGTCACCCAGGACT
GCAGCAGGATTCAAGCTGTCAAGATGACAAAAAGGTGGGCAGTTTTCAGTGAATGAGAAACTGACCAAAGGGACTGGCA
GAAGTCAGAGACAAGGAAGTAGAGTTGATTGGCATAGATGTCAAACGAGAAGTTTTTACAAGAAGGTGGAGGAGTAAGT
AAAAGTGAGTAACCAGGAGAGCACCCATTTCATCTTGGGACCCAGAGAGGGCATTGAGAACCAGAGTACCTTACCCTGA
ATCCACCACAGGGAAGTGACATCTTTAGCGAAGAGTCAAATTTGAGAGAGGTTAGGATCTGGGATGACTTTTTGGTGGC
AAGGCTGAGGATGAAGTGAAGTCTGTTTGCCATGGGAAAAGGGATCCAGAGAAACTGATTGAATAATATGGAAAGAATG
AGAATGGGAGGATAGACAGGGGAGAGAAATCACAGTGCAACATGGGGATAAGAAGTTGAAAGAACACAGGGAGAGGAAG
AAGCTCTGTATCAGGTGGTTGTCTGAGATATGATTATGAAACAGCATTCCAAAATATTTTCAATAATTGGTCCACCTGT
CCTCTGACTGATGGGTGTTAAACCAGGGAACAAGAAGTTGAGCATAGCTAGTAGGTCTTTTGGAAAGACCATAACGTTT
GTCCTAGTCCCAGTAAGTAGGTCTGCAATGGTGTCCTTGGGTTCCTAGTACATTTCAGCATCTATTGGAGAATAGGAGC
TTCTGGTGTTTCAGTACTTCTGCATCTTCCAGATTACTCAGCTGTTTCCCAGATTTATTACAGTCTCTGGAGTATGGAG
AAGGATCTGATTTTTTAAAAAATATGAATTATCATTTTCAAAGTATTAGTTTATTTTAAATAATTTTTATATCTAACTC
TAATATTTTGCCAGCAATAATAACATCTTAGGTATTTTGAATTAGCATTTGAGTTTGCTTTTGAGAATTTTAGTTCTTA
GAAATAATAATTGAATTAAACACTATTGCTTTCTTATATATTCTTAAATACTATTTCTGGCATTCAAGCATTATTCCAG
TTCGTCATGCTGCCAATTTTAGCAATAAAATAAAGAATAAAATTGAATTCAATGTGGAAAAATTCTATTTGTAGAAAAC
ATTCGTCTGTAAACGGGGTTACTGTTGTGACCTTAGTGAAACAACAGAAAGGCACGTGCATACGGTTTTGCCCTTAGCT
TGGATGTAACATATTATTTGCAGACTTTAAGTCATAGCAACCTATGATCATGCTAATTTTTATTTAAGGCTATTTGATA
GAGTTGTATGATTGAGACCTGGAACCAAGATCCTTGATGTAATACATATGTGCACACAATTTTTTTATTCTCTTCTCTT
TGGTGACCTTGTCTGGGTCATTTTTTTGTTTGTTTGTTTAATTTACACTGTTTGAAACAGTATCTGTGACTAGAATTTG
GCAACTGTAGAGTATATCATATGTACACAGTGCCTTAGCAAAGGGTTTTAATTAAACTCAGTGGAGGAGACCCAAGCAG
AGGAGCCTTCATTTGTCTTAAGAAGAAATGTCAAGGTTAATTGATTTTCAGAGGATTATCTGCAACAAATAAAGACCAA
GACTCATATCTTCTTATTTTGGCTTATAAATTCTGGTATGTTCTGTTCAATATCCACTGAAAAAAACTGAGATGAGAGT
GTTTCTATAAAACTCTATATGTCAAAGCATCCTTTGCAGTTGGCAAAACTGAATGAATGACAGTGAAAATGTATACTTA
TGGATTATGATATAGTCATTAAAATGATTATTATGATAAGTATATGGTAACATGGAAGTATTTAGAATGTTTTGAGGAG
AAAAGCAAAATATACAAGTATATCCAGGTTAAAGTTAAAACACTGCAAAATATATGCCTGCATGTGGCTGAGAACTGGA
AAACAATGTGAAAATAATTTGAATTTTTTGATTTACAAAATTGTGGTTTTTTATTTTTCTCACATTGATTTCTATTAAT
GAAAATAAGTGTTTATCCAATCAATAAAATTACATTAAAATTTATTATTTATTTACAATTTCATTCATACAAATTCATC
TATTGTGTCTTAGTATATGACAGACACAGTTTGAGGTACTGGGAATATTTTATATGTAGATTTTAAAAATTCATGAACT
TTTGTTTTTCACAGGCAATCCAATAGGAAGTTTTGGCAACTATGGTGGGAGGTAGGGATACTTGGGCCTTTCAGAATTC
TCCAGATCACTTTGTATAACCATTCCTCTGTTGGTGACCGACTCCCCAAAAAAGATCACCAGCAGAACCAAGTGAAACT
AAGTATTCATCTCAGTGAAATAAGGGAGGACATCACCTTTAAAATTAGTAGTATTTTGGAAAGGGGAAGTAAAGGGAAG
ATATTTGTAGAGTTTTATAGCCAGGTCTGGGAGCCTGATCTTGCAAGGTGGAAAAATGGCTGGCATTAGGCAGAATTTA
GAGCCTAGCAGTTCTGGATTAGTGGGGTCTCTAAGAGCAGTGAGGTTCTCAAAGTGAACCTTGATAAGTGAACTGTTAG
TCTTATTGAATAAGCTGGTTCAGGCCATTTACAGCCTTATTTTCCAAAAGCAAACATTTCCTGGAGCAAGTACCTAAGT
TATTTTTGCTTGGTCTCCATGTGCTCAGCATTAAAACAGGCATTTAAACTTTGACTCCAAATTGTTTAGCACTGGGACA
GAAAAGTATTTTGGTTTCAGTTTTTACCTTCTTTGTGAGCGACCTAGGTTTGATCAACTCATTTGGCTGACAAGCCGGA
TCCTTTGTCCCTTATTTTATTTTTTTAGACTTATATTATTGTCACCTATATTGCTTGGAAATTTAGGAAACACAGTCCT
TGGGATAGCTGGGGGGATGAGAAGTCAAGAGAGGTAAGGTCTTAGGGTAGACAACTGGGTAGATACTGGGCTACTCAGT
ATCCAATCCTCTTCTGTTTTGGGGGAGTTTCAGAATAGGTGAGAGAAAGGACCTAGCCTTCCACTAGGGGAGTAGGAAT
ATGCATTCCCTCTGCATGCCCCTCTGGCAGACAGAGGGAGGGTCTATAACCTCAATGTAGTCAATCTGATGTTCCTAGC
CAGGACTTTGAATCTTGAGGGGATGGCTCAGACCATCACATATGCCACTATCGAGTGGAAGGGCCAGTGGCATCTGTTG
TAGCTGCTGACAGTGTGGCGAAGAGCAGTGTGTGCCCAGCAGGTGAGGAATAGGGTCCCAGGCAGACTGATCCAGCCTC
CCAGCTGCTTATTATCTTCACTGGATTCTGCTCAAGTCTGCTTCTTCAAGCTCCCTGTTTATTCTGAGTTCTATCCTAT
ATTCTTTTGATGGATTCCTTTTCCTGCTTATGTCAATCCATCATTTCTATTGTTTGCAAATCACAGCCCTTGATCACTC
TAGAAACTAAAGTACAGAAACTGCCCTGACTTTGCTAGAAGTTTAGGTGTAAAATTAGTAGTAAAGTTAGTAAGGAAAA
ACCAAAGGGGAAGATTGAATTTTATTTTAATGCATTATTTTTTTACATAAAAAGATAACAAAAGGAGGGTAGTGAAGAG
AAGAGTCTCTTGAGATGTCCGTGGCAAAGTTTTAAAGCTCTCAATAAGGAGACAAGGACTGGGCTTCATTGCAATTAT

Fig. 6.137

TCCCTTTTGACTGTTGAAGCTGGTAGGCTTACAATGGACTCCTAATGAGAGTGGTTTGCACTACAATTAATTAAGTGCA
TGACATTATAAACTGCATGTCTCTTCCCTCTGGAGAATATTCTTCCTATATAAGTGCTATTTTGTTTTAATTTCTCTCT
CTGTCTCTTCCTCTCTGTTTCCCTCTCTTTGTCTCTCTCTCTTTTTTATTTATTTATTTATTTTTTATTATTATACTTT
AAGTTTTAGGGTACATGTGTACATTGTGCAGGTTAGTTACGTATGTATACATGTGCCATGCTGGTGCGCTGCACCCACT
AACTCGTCATCTAGCATTAGGTATATCTCCCAAAGCTATCCCTCCCCCCTCCCCCCACCCCACAACAGTCCCCAGAGTG
TGATGTTCCCCTTCCTGTGTCCATGTGATCTCATTGTTCAATTCCCACCTATAAGTGAGAATATGCGGTGTTTGGTTTT
TTGTTCTTGCGATAGTTTACTGAGAATGATGATTTCCAATTTCATCCATGTCCCTACAAAGGACATGACCTCATCATTT
TTTATGGCCACATAGTATTCCATGGTGTATATGTGCCACATTTTCTTAATCCAGTCTATCATTGTTGGACATTTGGGTT
GGTTCCAAGTCTTTGCTATTGTGAATAGTGCCACAATAAACATACGTGTGCATGTGTCTTTATAGCAGCATGATTTATA
GTCCTTTGGGTATATACCCAGTAATGGGATGGCTGGGTCAAATGGTATTTCTAGTTCTAGATCCCTGAGGAATCGCCAC
ACTGACTTCCACAATGGTTGAACTAGTTTACAGTCCCACCAACAGTGTAAAAGTGTTCCTATTTCTCCACATCCTCTCC
AGCACCTGTTGCTTCCTGACTTTTTAATGATCACCATTCTAACTGGTGTGAGATGGTATCTCATTGTGGTTTTGATTTG
CATTTCTCTGATGGCCAGTGATGGTGAGCATTTTTTCATGTGTTTTTTGGCTGCACAAATGTCTTCTTTTGAGAAGTGT
CTGTTCATGTCCTTCACCACTTTTTGATGGGGTTGTTTGTTTTTTTCTTGTAAATTTGTTTAAGTTCATTGTAGATTCT
GGATATTAGCCCTTTGTCAGATGAGTAGGTTGCGAAAATTTTCTCCCATTTTGTAGGTTGCCTGTTCACTCTGATGATA
GTTTCTTTTGCTGTACAGAAGCTCTTTAGTTTAATTAGATCCCATTTGTCAATTTTGGCTTTTGTTGCCATTGCTTTTG
GTGTTTTAGACATGAAGTCCTTGCCCATGCCTGTGTCCTGAATGGTATTGCCTAGGTTTTCTTCTAGGGTTTTTATGGT
TTTAGGTCTAACGTTTAAGTCTTTAATCAAAAGTTGTCCCTGAAGGAAAATTAACTCTGCTGTTAGTCCACTGAGAAAG
CTTCTCTTTTAATACTGGAACATATCTTTGTCTAACTCTCCCTCACACCTAGTGCTAAATTTATCAGCGTTGTTCCTGA
TACAAACATTTTGAAGACAATCGTGAGGAAAAAGATGAAAAAAGTTGCATTTAACTTTTGTTACAGGTGTCCTTGTTCT
CCAGAAGTTACTGTCTTTGTTGTAGTGTGCATGCAGTCACAGGAGTGTGCATACATGTGTGAAGTACTTGAGAAGTGTA
TTTGTCCGTTCTCACACTGCTATAAAGAACTGCCCTAGACGGGGTAATTTACAAAAGAAAGAGGTTTAATTGACTCACA
GTTCAGCATGGCTGGGGAGGCCTCAGGAAACTTACAATCATGGCAGAAGGGGAAGCAAACCCTTCTTCACGTGGTGGCA
GCAAGGAGAACTGCAGAGCAAAGTGGGGAAAAGCCTCTATAAAACCATCAGCTCTCATGAGAACTCACTATCACGAGAA
CAGTATGGAGGTAACTGTCCCCATGGTTCAATTACCTTCTACCAGGTCTCTCCTGTGACACATGGGGATTATGAGAACT
ACAATTCAAAAGATGAGATATGGGTGGGGACACAGCCAAACCATGTCAAGAAGTATTTCAGAGACAAGTCATTCCCCAA
ACCTTATCATCAGGGTCAAGACCTGGCAGGTGAGACATTAGCAGGTGAACACAACATTCTCAGAAACCCTTGAGAGTAC
TCCTTTCCCTCCAGGCATCTTCTTTCAACCTTAATATATTCTATTCAATTATATTCACAGCTTTTTACCTCAATTATAA
TTCCATTCTTCCAAATTTGTTTTCTTCTCCCATCTTTCCTCCTAATAAAATATCTATTCTTCAGATAGTCTTCCTTTGT
AAAATAGAAAGGATCTACAAAAGCCATTCTTTGTGAGATGTGAATCATTTCAAATAAATTAATGCCTTGTTCTAATGTG
AATGGTGGACTTGTGAAGAGAAGTGGGTAGATATTTGAATTTCTGAATGCTTTAGAATATTAGTTGCACATGCAGTAAT
ATTTCCTGTAGCTTAGAAGAAATTGGTTGGCTTAACAGAAAATGCAATTAAAATAGTTTACAAATAGGTTCTGGCATCA
ATAATAGAAATATTAAAGAAACTACATATTATATCAAGATGCTTCTCTTTTTTTCGGGGGGGGGTGCCTTTTCTTCCT
TGATGAACACAGTACTCTTTCTTCTTTGTCTTTTATCTTCCATCTCAAATTGTCAATAATAAATTTGAAGAATGGAGAA
TAATACATTATCACGTGCCAGACCTTATGCTAAACACTGGATATGTTATATTGTGTTTCATACTCAGGATGATGCTACG
GTAGGTACCATTATTATCTTATTTTACTTATAAGAAAACAGAAGCCTGGAGAAGTTAAACAATTTCCTCAGTATCAGAA
AGAACCAAGATCAAATATCTAGGTTAAGGTATTTTATCTTAACCTAGATATGCCAGAATATCAAATCTAGGTTTCACTA
TTATTTTGTATTCTATCCAAATTTCTAAAACTGCTAATGATGGAGGGCTGTTATATGGTTCTAGCTTTATATATTTTTT
TATTTCAACTTTTATTTTAGATATATGGGTATTTGTACAGATTTGTTACATGGGATTATTGCATGATGCTTAGGTATGG
TATATCCCATTACCCTGATAGTGAGCATAGTACAAGATAGGTAATTTTTTAATGCATCCCACCCTCCCTCTACCCTCTA
GTAGTCCATGGTGTCTATTGTTCCCATATTTATACATATGTCCACGTGTGCTGAATGCTTAGCTCTCACTTATAAGTGA
GAATGTGCAATATTTGGTTTTCCATTCCTGTGTTAATTTGCTTAAGAATATGGCACCCAGTGGCCGGGCGCAGTGGCT
CACACCTGTAATCCCAGCACTTTGGGAGGTCGAGACAGGTGGATCACCTGAGGTCAGGAGTTCTAAACCAGCCTGACCA
ACATGGAGAAACCCCGTCTCTACTAAAACTACAAAATTAGCCAGGCGTGGTGGCGCATGCCTGTAATCCCAGCTACTCG
GGAGGCTAAAGTAGGAGAATTGCTTGAACCCAGGAGGTGGAGGTTGTGGTGAGCTGAGATCGGGTCATTGCACTCCAGC
CTGGGCAATAAGAGTGAAACTCACTCTCAAAAAAAAAAAAAAAAAAAAAAAAAARGCATATGGCTCCCAGCTCCATTCAT
GTTGCTGCAAAAGACATGATTTTATTCTGTTTTGGGGTTGCATAGTATTCTATAGTATATATGTACCACATTTTCTTTA
TGCAATCTACTATTGATGGGCACCTGGGTTGATTCCACATCTTTGCTATTGTGAATAGTGCAGTGATGAGCATATGAGT
GCATGTGTCTTTTTAGTAGAATTATTTATTTTTGTGGAAGTATATACCTGGTAATGGGATTGCTGGGTCAAATGGTAAT
TCTGTTTTAAGTTCTTTGAGAAATCTCCAGACTGCTTTCCAAAATAACTGGACTAATTTACATTCCCACCAATGGTGTA
TAAGCATTCCCTTTTCAGCCTCGCCAGTATCTGTCATTTTTTGACTTTTTTATAATAGCCATCCTGACTGGTGTGAGAT
GGTATCTTATTGTGGTTTTGATTTGCATTTCTCTGATGATTAGTGACGTAAGCATTTTTCATATATTTCTTGGCCACTT
GTATGTCTTCTGTTCATGAAGCCCTTTGCCCACTTTTTAATGGGGTTATGTGTTTTTTGCTTATTGATTTGTTTAAGTT
CCCTGTAGATAGTGAAAATTAGGCCATTGTCATATGCATAGTTTGCAAATATATTCTTCCATTTTGCAGGTCTTCTGTT
TACTCTGTTAGTTTCTTTGCTGTGCAGAAGCTATCTAGTTGGCCATCTTGGCATCTAATCTTTAATTTTCTTTCTAAAA
TATTTGAATGTTTTGCAATTTCTGACTGAAGTTACTTCCCTCTTTCTGAAGAAGGCCCTGCTGACATCAATAATTATCT
GAGAGTGACATAAGCTGACTCCGATTATGCCAAAGTAACCCTTACGTGGTATGAAAAGAAAATGAAGGTGACTATGATT
CCTGGGGCATTTGAGATTCTGAGAAAACTCCAGGTCAGCTCGCCATAAAAATTCCCCACACCTGTAGTTTAATTTACCA
ATTAGGAAATTATATATTTGGGGCTAAATGGTTTCTGATTTGTTGGCCTGAAAGAAATAATGTACTTTTAACAACTATA
AAAGTTCTCTGCTAGGAATATCTTAAATACAGTGAAAATCTGCCTTGACAGTGGACAGTAAGTTAGATTTCATTGTTGT

Fig. 6.140

AAATTGGCACCATTAACTAAAACCCTTGTCCATTCAAAATAATATGTATTGTCACATAACACTAAGCTCTGTTATTAAA
CTGCCACAGATTATTGCTTTAACAGTTTGAAAATGATTTTTAGAAAATTGACTTTGTACAATGCTATATTAGAGTCTGT
TAATTGATGAGAAAACCAAACTCAGATGACATTTGCAAAAATAAAATTGGCATCAGTTGAAACATCTGTACCATTTCTC
TTATTTAAAAGACATTTTTCATCTGGAAAATGACTACTTCGATTAGCCTCAGATCACAACCACAAAATAAAGTTGTCTA
TGGGTGGCTTCTTATTTGCATTTAAATTATTATGTTGCAGCATTTTGTATGCACAAGCAAATGGAAGATTGTTTTGAAT
GACATAGGCCTATACACCTGAGAGAGAAATATGTCATCTACAAAATGTAAAAATATAGGTTTTTGTAAATGCCTCTGAA
AGGATTATAAGAATCTACATTTTCCCCTCCCTCCTGGAGTTTGTCTTTCTATTAAGGCTCTAGACGAAGAAAAGCTCTA
ATATACTTTCCTTGGAGGGGTCATGAGACAATGAAGCATAATAGGATTTGAAGTATATTGGATATAAAATTCATGTGAT
ATCCTCAAGTAGAGAGATGTTATTTTACTGTTCTTTAATCTTTACTGTTGGCGATAATTGCCTTTGTAAACTAACTTTA
TGTTGTAAACTAGTAGCGAACCAGAGATTGAGTTGAGAGGTGGGGGTAACAGATGAGATCCTCACTTGTGAGGGCTCCA
AGGGCCTGTGAGGCAATGGAAAGGGCTGACCTTGCTACCTGGATGGGAACAATGCTGTTATCATTTTCATGTGCTCCTG
TTTAGAAGATGAGTTAACATCCATAAAAACAAGTTAGACTAAGGGTTGTCACACTACAGCCTGTGGGCCAAATGCTGCC
TGCCACTTGTTTTATAAATGAAGGTTTCTTGGAGCTTGCACTACTACTGCAGAGTAGAGTAGTGGAGATGGAGACCATT
CGGCCTGCAGAGTCAACAATGTTTAATATCTGGTGCTTTACAGAAAAACTTTGCCAAGCCTTGATTTAGACTTAGTAAC
TTTAGTAAGAAGTTACTGACTGCACAAATTACCAGGATATTTAAGCTTGTAAAGTATTAAAATACCATAACTATCTGCT
TCTTGTGGCAGGGAGGGGGCCAAGGAGAGGTGAAGTGGTTATAATGCTCGTGCATTGGTTCCTTCATTCACCAGAGTGA
TTGTGCGCCCTCTCTGAAACAGGGATAATGCCAGGTACTCAAGATACAGCAGTGAGCAAAAAGAGGCATAGTGCCTTCC
TTAATGGAGATATGCATTGGAGTCACATAGCATAATAATGTTGACAAATATCCCTGCTCTCATGGATCAAGAGGTTAGA
GTTTTAGGGTAACCATGGAAGATCTCACTGAGAATGTAACTTTGAATAAAGGATTAGAGGACTTGAGGAAGCCAACCAT
GCTGCTAGAGTTTCTCTGCAGAGGAAAGGGGAGTGATGAGATATAGGTGAAGGACAATGTGAGCCAAGATTGTTTTTTT
TAAGTTGAGGAATTAACAGCATGGTTGTATGCTGAGGGGGACAATTCAGTGGAGAGGGAAAAATTGATGTTGCAGGAAA
TTGCTGGGATAATGTCTTTGAGCAGATAAAAAGGGATTGATCCAGTGTACAACAGAAGGGACTAGTCTTGGTTTTGGAT
CAAGGACAGTTTATCCATAGTAAAATAAGAGAACGTAGAGTATATGGGCACAGATGCAGGTCATTGGGTAGTCGTGGTG
GTTGAAAATTGTAGAAGTTCTTTTTTTAAAACTTTAATTTTTCTTAGTATGTGCAAAGGCCTTGAAGCAAAATAGAGCA
TGGTATAATCAAAGAATTGAGAGAAGAAAAACATAATCTAACTGTAAATTAAGCAATACCATGGAGCCAGATGAGGCTG
ACGAGGTACACAGGATACAGACGTCAGCAAGACTAAGAATATGGTAATGCTAAACCAATTAAGAATGGGGTTAAATCAA
ATTTGCCTTTTTAAAAAAAGATGACTGTGGCTACTGATAGAGATTGGATAGGAGAGTGCAACAAGAGTTTCTGTGGAGA
GACCAATCAGGAAGCTACTGCAGTAATTCAGGTGGGAAATGAAGGCWTCATGGTCTAGAGTAGAGGGAGTGGGGAGAAG
AGAAATGATCAGATTTTGAGAGATATTTAGAGGCAGAGTAGATAGACTTACCTCACTTATGTTTGGGTATAGAAGACAT
TGCCTATGTAAAGACTGAGTAGAGAAGAGAGCCTAGGAGTAGATGTGGACACTCAGGAGAAGGATTGAGATCCTGGTTT
AGAACACTGAGTGAAGAAGCTGGGTATTGTTAAAGAAGAGAGCCAAACTTCACAACTGCCTAGCAGTGAAGAAGCAGAT
CAACAAAAATCATATGGTGCGGAAGGGATACTTGCCATTAGATTAGTCCAGCTGAAGCCAAACGCTGGTTGCTTCTGAT
TTTTTTAAATCCTATAAATATATTGGTTAATTTTATTTAAAAAAATTGAACTTTTCATTCTCATAATGAGACCAAAGTA
AAGGTCAAAATCTTAAGAAGAGAATGGGTCAGAACATAGCAGGCAGATTGTTGTTTGACATGATGTCAATGGACACTTC
AGTTGTCATGTTCTAGGCCCATTACATTGGCCTTTCCTCTTTTGAAGCTTCTCTCATGGAACCAAGTGCATTTTATATC
TGCATCTGTTCCAAATATGGGTATAACACAGACTCTGTGAGTAGCCTGCAATGTGTTTCCCTTCCACATATTGCTAGAT
AACTCTGCTTATAAAAATCTGCTTGCAAAAATCATAGAACTTGCAGATCCTGTCAAAAGAATTACTATTAGATGAAGTT
AAGAAATGACTGTAGAAGTAAAAGAACAAGAGCTGGTCTTAGGAGTTCCATCCCTTCATCAGTCTAGGAGGGTTGGGAT
CTTAGAGGCATTTTTGAGCTGAAAACTCAAGGCAGGAAACAAGCCATCCCACTCTGAATAGGGCTGTGTTTCTCACCTG
AACAGTGAGAAGAGGGTGTTATATTTTCTAATAAAATCCCACATTAAGTTAGACAAAAACTCTGTATAACTATGGAATA
GACTTTACTAATGGAAAGAGTAATGTGAAAAGCTAAATAGGAAAATTTTAGGCACGTATTTTCACAATAGATCTTGCTG
TACTTGGGGGAGGCTTGTCTTCTTGATTACTAAGGTTAACTTAGTGCTTCAGAAGCCAGCCCGTTTTTATGTTCTGCTG
TTTTCCTGATTTTGGTGTGTCTTGATGCCACTGTGTTCTAGTAAAAATTCCCTTCAATAGACTGCCAGGAGAGCAGACC
AGGGAGTGTGAGTGTTTTGTGCATGGGCGAGCACATACAGATGTTAGGTGACAGTGGTTATTCAGTCATGCTTTCAGAC
CTGGAGAACAGTTCAGGTCAAAATCTCCAAGTCTGTGGAATGAAGCTTTGGGGGAATTAATCAAAATGTTACTGAAAGA
AAAGGGAAATCAAATCTGACTTCCACCCCTCTGAGATTTTTGTTGAGGACACAGAATGAGAGCATAACCTTCAGGTCCA
GAGTGGAATATAGAGAGATCTTCCACTGACAATATGCTATCAACAAAAGCAAGGTAGAGAGGAAACGTTGAGCCTCAGC
AACCTGTAAGTCAAGACCCTCTCCATCATCCCTAGATGCTTTTGCTCTGTCATTGGGATTGTGTCCCTTTCTATAACAC
TGTGACTTCTTTGGATCTCCACAGCCTGACTGTGTTCACGTTCTCCTCTCCAGTCTTTTAGTTTCTCTTACAGAGCTGG
TGCATTTCTGTGGGGACAGAGCAGCTGGAACCTGGGCCCGAAGCTGGTTCAGATATGGAATTCCCTTTAAGAGCAAAAA
TAACAATTACTAATATAATACAAGCCCAATACAAAGTGAATAGTTAAAAGGAGAAAAGATATCACTATGAATTCAAATT
TTAAGTTAACATATATCCCAACTACCACAAAATATTATAAATCATAACATTTTATTAACTGCCCAACCCAATTTTATAA
TACATTTTCCCCTATGCTTGGCTAAATATTCTTTGATTGTCTCTTTAAATGACACTGAAATTGTAATATTTTCTATGTA
GAGATTGGGAAGATACTTTAAACTTTTCTTCAGGATTGTTGATTTTTAAAAAATTATTAATAGTTAGAAAAGTTTTGTA
ATGTCATATACATTCTTAACATTGTTATCAAATTTTGAGAAATATTTAAATTTTTTTTTCATGTAGGAGCGTAAGATTT
CAGGGCATTCGATGTGGTGTGTGTGTTTGTGGGTGTGTATGTTGACTAATCTTACATACTTGTATTCTTTTACCAGTTT
GTCATCGAAGTGTCACTGCATTTGTCATGAGATTTAGATCCTCTCTGTCAATGTCAACATTTTATATCAAATCAGAAAA
AAATTAAAAATTGTTTCAATGTGTGTTAGTTTGATTAACTCCTTTTCATTAATTTACTTGTCAAGCAACCCAAGGGCCA
ATTCATCATATCTATTTGAAATTTATCTCTTTCTCTTATTGAATTACCACTTTTGAGATGATCTGGAAAAAAATTGTTA
CAATGTACTGTCTGATATCTGAATAATTTCTATTGATTTAACCACTTGGCTTTACTGCATTTTCTTCATACTCCAATAA

Fig. 6.141

TTGTATTTGAAATTTTCTTATTCATTTATATTTTTAGTCCTTTAATCTAAAAAAATTAAGGATAAAAAAGCATCCTTCA
CGTATATTGAAATCAGGAGTCAGTAATTTTTCACTTGTTTAAACATTCAAAACATCTTTCTAACTCACTTCTTGATATT
GGGATAATTTTAATTTTACTTTTGCAAATTTTGCCAAAGCATCTGGCTAAATAAACACACTTGCCAGGGCACCGCCCCA
GAGCCTCGGCAGGTACTTATGCAAGCAGAGAGCCCTGCAGCTTTGGCTTTTATCATCTTCACCATAAACCCATCTCTGA
TTCTCCCCTTTCCCTACAGCACTTTCCACTAACAATACACATACACACCCATATCACACCTATACTATTTATTTTTCTT
TATGCCCCTTTTCTGTAGTATTTATATCCATAGCAATTATCACCATCTAACACACTACATATTTGCTTATTTATTTAT
TTATTGTTTATCTCTCCACACTAGAATTTAAGCTTTGTAAAGGCAGATGTGTTCCTTTCCTGAGGCTGCCATATAAATG
ACCACAAATGGGTGGCTCGAAACAGCAGAAATTTATTCTCTCTGAGTTGCAGAGAGAATTCTGCATCTCAGAATACAGT
TCAAAATCAAGGTGCTGTAGGGCTGGTTCCCTCTGGAGGCTCTGGGGGATGATTGCTTGCATGCCTTTCATAGCCGCCA
GTGGCTGCTTCCAACCCTTGGCACTCCTTGGCATGGGGCTTCATGAGGTTCAATCTCTGCCTGTGTCCTCTCGTGGCCT
TTTTTTTTTTTTTAATCTGGGTCTCTGTGTCTTCTCTTTTTCTGATCTTAAACATAATTTCTTGAGGAAATCATAAATC
ATTGGACTTGTAGCTCACCCTAATACATGGTGATCTTATCTCAAAATCTTTACCTTAATTACATCTGCAAAGATCCTTT
TTACAAGTAAGTTTACATTCTTATTCCGGGTGAACTTATCTTTTGTGGACCACAGTTCAACTCACTACAGAAGTTACAA
TTTTTCTGTTATGCTCACTGATGTGTCTCCAGCACATAGACCAGAGCCTGGAATGTAGTAAGTGCTAAATAAATATTTG
TTGAAGGAATGCATTGAGAGCCTATAGTGCCAGATGCTGAGGTAGGTACTTAGAGCACTGCAATTTAAATATTCCCTAA
CTATAATTTATCTTCTCTTTTCAATTCACATATAAATATTTTTTTAATTTTTTAAATTTTTTATTTTAGATTCAGGTGG
TACATGTGCAGGTTTGTTACATGGATATATTGCATGATGCTGAGGTTCGAGTTTCTATTGATCTTGTCACTAAGATAAT
GAACATAGTACCCAATTGGAAGTTTTTCAGCCCTTGCCTCCTCTCTCCCTCCCCTCTTTTTGAGTTCCTTGTGTCACTG
TTCCCATCGTTATGTATGTGTGTATGCAAATTTTAGCTTCCACTTATAAGTGAAAACATGCAACATTTGGTTTGCTGTT
TCTGCATTCATTCATTCATTCATTCAATGGCTTATGGCTGCATCCATGTTGCTTCAAAGGATGTGATTTTGTTTTTTCT
TGTGGCTGTGTAGTATTCCACAGTGTATATGTACCATATTTTCTTTATCCAATCCACCGTTGATGGGCACCTAGGTTGC
TTCCATGTCTTTGCTATTGTAAATAGTGCTGTGATAAACATACATACAAGTGCAGGCATCTCTTTGGTAGGATGGTTTA
TTTTCCTTTGGTATTATACCCAGTAATGGGATTGCTGGGTCAAAATGGTAGGTCTAATTTTAGTTCTTTTGGAAATCTC
CAAACTGTTTTCCACAGGGTCTGAACTAATTTTCATTTCTGCAAACAGTGTACAACCATTCCCTTTTCTCTACCGTCTC
GCCAACATCCGTTATTTTTTTACTTTTCAATATAGTAGCCATTCTGACTGGTGTGAGATGGTATCTCCTTGTGGTTTTG
ATTTGCATTTCTCTGATGATTAGTGATATTGAGTATATTTTCATGTTTATTGGTTGCTTGTATGTCTTCTTTTGAAAAG
TGTCTGTTCATGACCTTTTCCCACATTTTAATGGGGTTATTTGGTTTTTTTCTTATTGATTTGTATAAGTTTCTTATGG
ATTCTGGATATTAGGCTTTTGTTGAATGCATAGTTTGCAAATATTTTCTCCCATTCTGTAGGTTGTCTGTTTACTTGGT
TGATAGTTTCTTTTGCTGTTCAGAAGCTCTTCAGTTTAATTAGATCCTAATTTTCAATTTTTGTTTTTGTATGCAATTG
CTTTTGGGGACTTAGTCATAAAATCTTTGCCTAGGCCAGTGTCCAGAAGAGTATTTTCTAGGTTTTATTCTAGGATTTT
TATAGTTTGAGGTCTCCCATTTAAGTCTTTAATCCATCCTGAGTTAAGAGGTAGGGGTCCAGTTTCATTCTTCTGCATG
TGGTTAGCCAGTTTTCTCAGCACTGTTTATTGAATAAGGAGTCCCTTCCCCCCTGCTTATTTTTGTTGACATTGTCAAA
GATCAGATGGCTGTAGGCGTGCAGCTTTATTTTGGGGTTCTCTATTCTGTTTCATTGGTCTATGTGTCTATTTTTGTAC
CAGTATCATTCTGTTTTGGTTACTGTAGTTTTGCAGTATAATTTGAAGTCAGGTGATGCCTCTGGCTTTGTTCTTTTTC
TTTAGGATTGCTTTGGCTATTCTGCTCTATTTTTGGCTCCATTTTACATTTTAGAATAGGTTTTTCTAATTCTGTGAAA
AATAACATTGATAACTTCATAGAAATACTGTTGAATCTGTACATTGCTTTGGGCAGTATGGACATTTTAGTGATATTAG
TCATTCAAAGCTATGAGCATGAAATGTTTTTCCATTTGTTTATGTTGTCTATCATGTGTCATTTATTTCAGTAGTGTTT
TGTAGTTCTCCTTGTAGAGATCTTTCACCTTCTTGATAGTCCTAGGTATTTGTGTGTGTGTGTGTGTGCACCTGCGTGT
GTGTGTGTCTATTGTTAAGTGAGATTGTGTTCTTGATGTAGGTCTCAGTTTGAATGTCACTGGTATATAGAAATGCTAC
TGATTTTCGTACATTCATTTTGTATCCTGAAACTTTACTGAAGTCATTATCAGGTCTAGGAGCCTTTTGGTGGAGACAT
TAGGTTTGTCTAGGTAAAGGATCACATCGTCAGCAAAGAGAAATAATTTTACTTCCTCTTTTCCTATTTGGGTGCCTTC
ATTTCTTTCTTTTGCCTGATCGCTCTGACTAGGACTTCCGTTACTATGTTGAATAGGAATGGTAGGAATGGGCATCCTT
GTCTTGTTCCCATTCTTAAGGGGAATGTTTCCAGCGTTTGCCTGTTCAGCATGATGTTGGCTTGGGGTTTTTCATAGAT
GACTCTTATTATTTTGGGATATATTCCTTTGATGCCTAGTTTGCTGAGGGTTTTTATCATGAAGGGATGTTGGATTTTG
TCCAATGCTTTTTCTGTATCTATTAAGATGATAATATGGTTTTTGTTTATAATTCTGCTTATCAATTCACTATAAGTTC
TTTGAAGATGAAAACTCTGTCTTTTATGGTGTTTGTACATTTTGAATTTCTTAATACTGTGTATGTAGCTGACAACACA
TAAATAGATATGCAAATGAGTAAGAGAGTCATTTGGGATCACTGCTGATTTAACTTATCTTGCCATGAAAGCATTCTGT
TCCTCTTTCCCATGCTTGGTAATATATCCTTTTGGAAGAAACACTCTTGCCAAAAGAGAATGGCATTATTACATCCAAG
GGAAATATTATTTGCCCAAGAGTGTAAAAATGTATGAAAGAAATATGTAAATAAAATCCTATATGTAAAATCTAATAAT
ATCAAAGTTTAATGATGAAATTTGTCAAGATGATTATAAAATATCACAGTTAAACTGTATATTATATTCATGTTTCTTG
CCATTTGTATGCTAAAAACTTATAATGATTTGAATGTACAAAATCAAAAATCGGGAGAAAAGAAGATAGATCAGAGCCT
ATTACCAATAATTTATCCTTTACCTCCATAAATGTTTGCTAGAAATGCCAAAGGCTCTAATTTGTCTATTTAAATGTAC
TTCAAAAAAGCATTCCCCAAGTTGCCTATTTACTCTGTTATCTCTATAAATCAGGAAACTCTCCAGGCTTTCCACTGTG
AATGTTGTATGGAATTGATAGAACAATTTCTTTTTTATGTTGTACTCATTCACCATTTAGTTACTTAGACAATAAACTT
AGAATGACAAATTCTAAGTCTCAAAATATGAATGAAAATTCACTCATTTTCAGAACAAAATTTAGCATCACACTCTCTT
GAGCAAAATCTCACTAGAAAAAAAGATAGAGAAAATACGTTATAGCATTTGAAGTCTGCTACCTCATGTCCTTTTATCT
GCTTTCTAATTTATTAGAAATAAATATGCAATTAAAATATGACTTTCCTTAACCTTTACATAATTATAATTATTATGAA
AAATATGTGTAAAAATATACATGTTATATTCCTTTTCTCTATACTACCAACAGCCACTCCCATTCATGTACTCATATTA
GAAGGGAAGAGCTTTGAATATCATATATAACATTTTCAGATAAAAGAACTTAGGTCCAGAAAAGCTAACTCTTTTGCTG
GTGACTAAACATACACATACGTGCACTGACACACACATATTAAGTTACTGAGTTGATAGCAAAAAAAAAAAGTGCAACT

Fig. 6.142

TTATATGGAAGTAGAATTATGTAAAAATGTCTGTCTAATTCTATACTGGAAAATATCTCATATGAAATGGCTCCTTCAT
ATGACAACACTCAGTATTCAAAAGCAAAGCACAACAACTAAGAAAGTTACTTTCCCCAACCAAAAAAAAATAATAATAAT
TAAAAAAAGAAATGTACCTATTGTGGACTAGCTGATTGGATACCATGGCCACAGCCCTGATTTTCAGTAAAGACATAGT
TTCAAGAATGTCATTCAGATGGTTTCTTAAGTAGGGATGTTGTTATTTTTAGCAAAAGAAGCCTTTTGTCCTTGTCACA
TCAAAACACAAAGAATTCCATAAGTCAGTGCCAGTCTTGTTTTTAATGCCTAAATATCTGGCCACATATATATTTATGT
TATGTAAATGTTATTGCCTTGTTTTTCAGAATAAGAATTTAGAACATTAGAAATTGACTTTTATAATGCAATTTTTTTC
AAACTCTTTTTGGCTTTTCTCTAAATCTCAAAATTTGTTTCAATTTAGGCAATGGAATTGGACTAGTCAGTCTAATTTA
TTTTTGTTAGCCAGTTTCACCTCTCAGATTCCAGGGAACAAAGCCAAACTATAAGATATCTACTGAAAACATTTGTAAG
AAATAATTAAAAGCAGACTCTGAATAAGCATATAAAATGAAGCATTTTTATCACAAGCTTTATAAATTTTTTAAAAACT
GTGTTCATTTAATTCTGAAAGCATGCCTCTTTTGTAATTATGAAATACAGAAATATTTGAAATTCCCCAGTCATCTTGG
CTCACAAATAGAAACATTTGGTTGCGTTTGGTTCACAAGCACACAGGGGCCTGCTGCTTTTGGTTCTGTGTAAAGCCCA
TACTATTTCTTGCTTTTTTTTTCCACAATGAGTATGTGGGTGCTAGAATGTTATCGAAATATTTTGCAAGACATGAATC
TAAAATGAGCACTCTGCTATGGTTGCAGTTACAGTGCAAACCCCATCAAGTTGCTAGCATTGGACTGATAGACAAGGTA
GGGGCAGCCAGAGAGTCTGAGTTCCTGTGAGGAACTGCAAGGGGGAAGGGGCTGTGTTCAGGGGCTGTCCTGCAGGCTG
AAGGTTGTTATTAGTTGTGTGGTTTCTGGGCCCACACAAAACTCCACCTTCTCCCATTAGAAGTCAGTGTCCTGTTGAT
GTGACCACCTGCTTTATTATTCGGGGTTTTCTGCCATCTAAGACCTGGGCCACTCACCTGGATTTTTGAACTCTTGCTT
TTGCACTGATACCTGATTCAGAATCCGATCAATTGCCTTTCCATCTTTGTCTGTGGGGACCAGAAGTACAGAGGTCTTA
TAGGTGAGCTTTTATTCTTTCTTCCAGAAAGAGTATCCTATAACTGTGTCAGTGAGGAAGTGAAACACAACCTCCTGTT
TGAAACACAAAAGGAATTTAGAGAGGAGTAAAATACAGGGCCGTTTAATTATTCCCTTTAATAAGAAGCAGCATCCCCA
CCAAAGAACATGTCGATCTTACTTGGTGATACATTTCCCTATGGAGAAGGGAGATCTGATTGAAAGAAGACCGAAGGGC
AGGAGGGAGGGAGGGTTGTAAAGCAAGGATGTGGCTCTGTGTAACCGGGATAAAAGCACCCTGCCTTAGGGAGATGTTG
TGAGAAATACCCCAGCACCCTCCTGCTACAAGAGGCAATCCTTATAGCTGGCTCTTGCCATGGTTAAAATGATTGGGAC
AAAAATATTAAAAAAGAAAATGCTCCTCGCTATACTGGTTGGAATCCTCAGGCTTGGAGTAGGAGGAGCTGAGTAATCC
CTGCAGTGTCCCGAAAGCTGGAATCCTGAGTAGATTCAGGCCAATTTGTGTGATATTCCCAGGGATTCCCTCCCTATTT
TGGGCAGAGGAATGGATTTGGATGGGGCAGCATGTTCCTGTGAGTTGGCAGGCACCCACTGAACAGAATAACTGATTTG
GTACCCAGACTGCAGATACCAGCTGAATTGCCAAGCAGATATTGCCTGAGGGAAATACCTGCTAAAGTTGAAATGATCA
CTACTTGGATGGGTTAAACATTTACCAGTATCAACTAGTATTATACATAGTGTTTTAGTTTTTCTGAAAATGTGCATGC
ACATGAGAAGAATAAGTATTAAGATGAAACTCCCAGTCCCTCTCCAGAGGCACAACCATGGTTACCAATTTCTTATATA
AAGTATATATATATAAAAGCTTATATAACCTCTTCTTTTACTTATTAAATACTTGCATTGATTACTTTAGAATGGGCAAGT
AAAAACTAGTTTAATTGTAATAATTGTAATCACTCTAATACATTTTCTTATTCCTGAATATTTGCTTTGTTTTAAACTT
TAGCAATTATGAACCTTATACTAGTCTAGGAAAATTAATCTGTAAATATTTCTGTTGGAATCTCAGATTTATAATTAAA
AAATTATATAGGGTATGTTACATAATTTCTGATCAAAGATTTAGATTAAACAAATATGTTTGTGCACTTATTACATCGT
CAGCACTGTCCTGTGCCTCACTCAATACGTGAACTTATTTAATGTAAGTCCACTTAATTTCACTGTAGAAACCAAGGAG
AAAAAGGTCTGGGGCACATACATGGCATTCTTGTGAATCTTTCTGAAAGTGCTCTCTTACCTGACATGGTAGGGATATC
CTGAAAGGTAAGAAGGGAAACCTTCAGGGCAGTGCCATTTGCAGCTAGGTCTTTGAGAATAAGAATGAATTCTTATTCA
ATATGCTGGTGCCACAGTTAGGGCTAAAGTATCTTTAGACCTGCCATCTCTAATAATAACGGCCATTTCTGACTTGTTA
ATCTTCCCGGCTTTTTTCCCTACAATTTTAGGTCTAAATCTTCCATGTAAACACACTCTTTCATGCTGAATCCTGCTCA
AATAACTGCCAAGATGTTTGTTTAGTAATCCTGAAATAGAAGATTGGCTTCTATGCTAAGATAATTATTGGGAGAATCT
CTTCTTTTAATAAATACCTGGTTCTTCTCAAACCCATGCCAAGAAGAATTCTTATAATATCATTTCTTCTCAAACCCAT
GCCAAGAATAATTGTCACCATATCATTTCTTGCTATTCATCCCTTTTAAAACTAAGAAACAGGCCAGGTGTGGTGGCTC
ATGCCTGTAATCCCAGCATTTTGGGAGACCGAGGCCGGTGGATCACCTGAGGTCAGGAGTTCAAGACCAGCCTGGCCAA
CATGGTGAAACCCGTCTCTCCTAAAATACAAAAATTAGCCGGGCATGGTGGCGCATGCCTGTAGTCCCAGCTACTTGGG
AGGCTGAGGCAGGAGAGTTGTTTGAACCTGGGAGGCAGAGGTTGCAGTGAGCTGAGATCGTGCCATCGCACTCCAGCCT
GGGCAACAAGAGCAAAACTCTGTCTCAAAAACAAAACAAAACAAAAAAACTAGGAAACATTAAAGCTTCCAAGGAATTG
AGCGTTAAGTGGGGTCTAACATTTAATATGACTGTAGAGTAACTCCTCTTTACTAAGTCTTTTTACTAGTTTCTCCCTT
TCTCTCAAATATGTACAGTTTAAATTGGATGGGTAAAGCAAATGGGAGAGTATTGCTACTTTTTAGTCATATTTATACA
AATGAATTATATAATATTAATTGTTCATAATATTCCTTGTAATTTATAGCACTGTGAGCAGTATAAATAATTTGATAAG
CGCTGGGCCTGCCCAGCCTTTGTAATGTCTTGTCAAGAGTAGATTGAGAACTGTGACATGATGTTAGGAAATGGAGATT
TACAAGCTTACTGAAGAATATAACTGAGGCATTAGGAGTGCTTTTCTGATCGGATTAATGTTCAGTTTTATTTTCAATT
TTATCAAGTGAGTGTTAATGAGAAATTTAGTTGGCTCCAGTAAAATCATTATTTTTTTCCTATGAAACATATGAAACCT
AAAATAATAGTCTAATTGTTTCATTTTTATGGCTTCGAAATTCTAGACAAAAAAAAAATTCTAGACAATGTAAATATTT
AACCAGTAAATATTTTGATGCATTAAATCGCAAAATATCTTTTATAATTGCTGCATCTCTCTTCCAAATAACTAGAACC
CAATTCCCATTTTCACTTTTCTCACATAAACATGAAACCATTTCTTATAGTCTGTAAACATTTCTACATAAGTGGCTAG
AACATATACTGCCTTATGTTTAATTGCATGAGACCCGAACTTATTTAGTGAGTATTTTGAAAAGCAGTTAAAGAAAAAA
GATGATGAAACATTAATGGCTCCCTTCCTCCAAGTAGAAGATAAGAGTAATATACGGTCATGGAGTTCCTTTTTAAGGG
GATGTATTAGTTTTCTATTTCTGCATATAAAGTCACCCCAAAGCTTTGTGGCTTAAAACAATAATATTTTATTCTCTCA
TGGTTTCTGTGAGTCAAGAAATTGAACAAGGTAGGGTAGAGATAGCTGGTCTCTTGTTATGTAATGTCTAAGGCCTTAG
CTGGAAGACTCTAAAGGTTGAGGGCTGAAATCATCTGAAAAGTTGTTCATGTCTGGTGGTTGATGCTGGCTGTGGGCTA
GAGACTTCAGTTCATCTCCATGAGTTCTCTCCTTGAGGGTTAGTTTGAACTTCCTCATAGCATAATAGCTGATATCCAA
GGGCAAGCATCCCCAGAGAGAGTAAGAACCTGTTAGAATCTGTGTCCTTTTTATGCTTTGGCTTGGAAACCACAGAGCA

Fig. 6.143

TCACTTCAACCACACTTCATGGGTTGGATCAACAACAAGTATCCTTCAATATTCAAAGGAAAAGAACGTAAATCCAACT
CATAGATTCTACCAGTCACAACGTAAAGTAACATAAGAAGATCTGTATATTAATCTTTGGAAAATATAATATGCTATGG
GAGGAGTGGACACAGGTTTAGCTAATGCCAGGTTAGGGTTTTATTAAGTGGGACATGAAAGCTTAGAGCTTGAAGTGAC
GAGAAAGAGGGAGCAGGGTTGGATGGGGTGAGAATTTTACGGACTGTGGATATAAAGGGGCTGCATTAGTCAGTTTTCA
CACTGCTATAAAGACATACCTGAGACTGGGTAATTTATAAAGAAAAGAGGGTTAATTGACACAGTTCCACAGACCTTGG
GAGGCCTCAGGAAACTTACAATCATGGAGGAAGGGGAAGAGGCATGTCTTACATGGTGGCAGGTGAGAGGAAAAAGAGT
GAAGAGTGAAGGGGGAAGAGCCCCTTAGAAAACTATCAGATCTCTTTAGAATTCACTCACTATCACAAGAGCCGGATGG
GGGAAACTGCCCCCATGATCCAGTTACTTCTACCTGGTCTTTCCCTTGACATGAAGGGGTTATGGGGATTATAATTTAA
GATGAGATTTGGGTAGGGGCACAAAGCCTAATCATATCAGGGACAGAGAAAGGAGAAGTGAGGAGGCTGACATTATGAG
ATGGATTTTGAGGGAATAACAGAGATGTTTAACGGGGATATTTATGCAGCTTTGCTGTGTGGAATGTGAGGTAAAATTG
TTTCTCTATATTTTTATAATCTTTAGAGGAAACATCCCACTGGGTTGTAGAGTTGGATCTATTTTTGGACAAAATACAT
TAAGTTGCTGAATATGGCTTCTATGTAGAGGGAGGGAAAAAGTAGAGGCCTACTAAATCTAGGTTACATCTGTTACATC
TGCTTTCAGAAAAACTTAGTAATAAATGTGGCTGTCATGTTAACGTTTGGTGGTTCCTAAATGTCATTGCAAAGACTGA
AGCCAGTCCATGGTAAAATTTTCATTGGCAAGCTCTGAAATCAGAAATTAGACATCATGAATCTTTCACAAAGCTAAAT
TTGTTCAATTAAATGAAATGATCTTTATTGTGAGTTTATATCCTTCCAAACTTTTTAGTTTTAAAATGATCTTTTTTAA
GAGGAAATGATGGTGACAGTAGATAGTACTTGTGTTTTGGATTTTTAACTGTCCATATTTGGAAAAGTAAAAAGTTACT
GACCACCATACTTTAGTTTCTAAAACACTGGAGTGCAATCTCTAAATTGCAATGTGTTTGGGGAAAAAAATTCAATCCC
TTTGCATTAGGTATTTTTATTGACATTAGATATAAGAGAATAGTATAAATTTACCTAAATACACAGAAAAATAATCTTT
ACTCTTTATAATCCCAAAGAAATATTCCTTAGTTCTTTTTTCTTCTATTTACTATCAATATCTATCACAAAAGCTGATA
TTACATGAAAATATTAATATAAATGTTACAACATTATCTTTCTTACGCAGGTTTGTTGTGAGGATTAAATAAATTAATA
TTTATGAAGAACTTTGAATCATGCCTAGCATGTAGTATGGACTCAAATATTGCTAATAATATTGACAATTTTTTTTGAA
ATTGCTCTTCTTCTGTAACACTCAATTTATGCCATTGGCATAAATGTTTTGAGCTAGACAAGATATTGCTCTATTCAGA
GTTGCCCTGGAATAACTTGTTTCTTTAATCATAACTGGTACTTTTTTAACCTATTTAAGCTTTAAATTATCCAGAAATA
AAACGAGGAAAAAAGAAGAAATTAAAAACAGTAATAAAACCAATTTCTCAGAAAGCCAAAAGATAACAACAAAATAAAC
TTTAACTACAAAAGTCTTTTTAGAGAAGAAATATTCTTATCCACCTCATAGCCTAGACTCAGTCAAGGGAAAGGGCAGC
CAAGAATATCTTAAGTGATATCCTGGGCTTTGTTTTCTTGATTCAAGTAGTGTTCACATTATTATAATTATATATTCTT
TTATCTGTATATCTGTCTATTCATCCATTTATTCATTTGACAAAAATTGAGTATCTGTGTTTGAGAGACACAAAGATAA
ATAAGATATCCACATCCCTCCAGGAAAATGTAGCATCTATTTTATAATACTTATGAATATTACTGAAGATCTAATTATA
AAATAAATTAAATCATTTATCAAATATAAATTCTATTAATATGAGTTTATATGACCACCTATAATGATAACAAGTATGA
GTTCCCTCTTTTACTTTTATCTGGCCTTCCCTCAAAAGATAGAGCTAACTACCTAGCTACTGGGCTGAAAATACTGAGT
TATTAGCCTTTGTGCATAGTAAGCTGGTGGTCTTAGATCAGAGGTATATGGCTTTTTTCCAAAGACACTGTGAGATACG
CAGAACAAAAATCAGAAAACTATAATCTTTTAAATGAATCATGAAGTACCAAAAATGTAAAGATCTCTTAATAAAAATA
ACATTTAGGATAGATACCATCAGACCAGTTCTGTACTCTGCCTATACTATTTTGAAAATCTTCCTTAAAGAAGCTTTAA
CTCTGATGTTTGAAGTGGCTCATACAATGAAAATAGGTTTAAATGCTTATTAATCACATGTAAATTAAACACATAACTT
TTGTGTTATAATCATAAAGTGGATTTGCTTTGTTTCATGTTTCTTCTTAAAATAATATAAAGCAAATAAATGAAACAAA
AATGGAGGTGTCCTCTGCTAGGTCTACAGTTATATAAGGAAAACCGGAAAGATAACATAAAAATCTCCCTAAATCAGGT
CTATACAGAAACAGATTTGCTGGATTTAGAGAGTAGATAATGCATGTAATCTCAAATATAAAATATAGCAGGTGACTTT
TTATGGGGAAGTTTTTTCTTAATGTTGATAGTAACATATCTGTACTTGACATTAATTAATCCATATCGTAAAGATTTGA
ACCAGAGAATCAGGCCCACTTGGTCATAGAGGCAGTCAAGGAATGGGCTCTCCACTACAATTTGATGTGAATTGTCTAC
TTATCATGTCTCATAGTTAAACCAGATAGTTTGGTAGATTCTTTATCACGTGTGTTTCTAATACAACCAGGAAAACCTA
TCGTATATTCTTTTTTTTTTTTTTTTTTTTTGTGAGACGGAGTCTTGCTTTGTCGCCCAGGCTGGAGTGCGGTGGCACG
ATCTCGGCTTACTGCAAGCTCCGCCTCCCAGGTTCACGCCATTCTCCTGTCTCAACCTCCTGAGTAGCTGGGAATACAG
GCTTCCGCCACCATGCCCGGCTAATTATTTTTGTATTTTTAGTAGCGACGGGGTTTCACCGTGATAGCCAGGATGGTCT
CGATTTCCTGACCTCGTGATCCACCCGCCTTGGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACCGCGCCCAGCC
TATCATATATTCTTACATTCTCTCTCACACAAATGTGCATGCGCACACACACACATGCACACATATACATCATTCTGAC
ACTGCCTTAACTTTCAGAATACAAGGTTGAGTCCTCTGCCACATACTAGCAGTATAATCCTGGATGAGTTACTTAAACT
TACTTTGCTTCAGTTTGAGGATGAAATGAGAGAATATGTGTAAGACATCTGGCACACATAGTGAGCATTCAATAAATGT
TAACTATAAGTAGGTGACCAGTTGGGGCCCAAGGAGATTGTAACTTGCTTAAGGTCATTAAGGTAGTTCGTGGCTAAGT
CAGAATTAGAATCTACATAATGATTCTCAATTCAACCTCCTTTATACTAAGTTATCTCACTAATTGGCAGCTCTTTCCT
GTGTTAACTTTCTGTACATGAAGGGTTTGCCTTCCCAAGTAAGTTGTAAGCATCTCAAAGGTTAAAAGCATTGTGAGTG
ATATCTTCATCAACCATAGGTTCTAATAGAGACTTCTTGCTATTTGTAGGGGTTCAGCATTTATTTGTTAATTATGAGC
TTTCAACTTCACAATAGTTAACCTGAAATTGTTTTATTCATCCCATTTTTCTCATTCTGTCTTCAGTAGTTCTGTATAT
AAGAACAGCAAGCCATTATCATTCTCAGCATAAAATTAGAATTGCACTCTGCACAACTACCATCCTCTCCCTCTGTAAG
TCCTCAGAGAAAATCATACAATTTTCTACTATATTTCTGCAGTATGAAGAAAATAATTTAATATACCTATGCTTTGGTT
TCTCCATATACAGAACTTATATATGGCATTACTCAATCACCAAAGAATTCCATTATAATTTAGCTTATTGTTATGTAAA
TTCAGGCATAACCCAGGCCACAATATGATCCCAAGAATATAACAAGTATCCATAGGGAAAACCTGGTAGAATAACTCAA
GAGTGGGAATTATTTTTAGCTTTGGATGACTTTTATATAAAGGAGCTCCACTCACAATACATTAGTGGCACTATTAACT
ACACTCGCTAGTAAGCTAATATTTGAGGTCCATTTTTTACATCTCTTTGAGAGTATATCAGTATATCAAGCATTACAAA
TTACTACCTTGATTGCCTTTGGAGCTACTCTTTTTTTGAGACAGAGTCTTGCTCTGTCACCCAGGCTGGAGTGCAGTGG
CACCATCTCAGCTCACTGCAACCTCCACCTCTTGGGTTCAAGTGATTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGATT

Fig. 6.145

ATAGGCGTGCACCACCATGCTCAGCTAATTTTTGTATTTTTAGTAGAGACAGGGTGTCACTATGTTGGTCAGGCTGTTC
TTGAACTTCTGACCTTGTGATCCACCTGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCATGGGCCACCGTGCCTGGC
CCTTAAGAGCCAACCTAGCATATCCTTGTAAATCAGTTGCCTAAACAAGCTTCCTCTTAAATATGCCTTTGAAAAATAT
AAATTCCTCTCTATCAGTATCTACATTTCACTTTGAAGATCTTATCGGCTTTCAGCAGCAGGTGTGCATATCCTACAAG
TTTCAGTTTTCTCTTGATGCTCAGGATGAACTAAACATCTAGACAAGGGAGCATCTGGGAAGTCTGACTAACTGGACTA
CTTGGACTGGTTTGTCCTCACAAAATGTAAGACTTACAATCTGTAGGCTGTTACCTAGCTCCTGAGAGCTACCTCCCCC
GGGCCGCCCACACTAGATTTTTAGTCCTGAGCTGCATACCCAGGAATTCTCCTGTTTCCGTGAATCAGGAAGGATATGG
CAAGTTAAGAGAGAAGGAAAGAACCTGCTGAGCCTTGCCTTCCAAGGGATATCAGGAAGTTACTCAAAAGACGGCAAAG
TGCTCTCTACACAAAAGTGCTGGAAGAACTGCAGTTATATTCCCTTTAGGAAAGGAAACTTTAAGATGATTTGGAAATA
GCCAAATGTAATCACATAACAACCAATTTTGAAGTTTGCTGGCATGCAACACTCCTTTAGGAATTCTTGGTTTCCAGCT
TGGTCTCATTGGCAACAAATAGAATTTCCTAAGCCTTATTAGGAGCCTGACATTTTGTTTGAGAATCAAAACTTTTCTG
TTTGAAAACTAGAGCCAAACTCAGTTATATAAAAACAGGGATGTAAGAGAAAGAGCAAACAAGGAAAGCTATTATGTTA
TATGTGTGCAGAACATAATAGTTTGAAGAGGGAGACTTCTCGATGGACCAGAATAAATACTAGAATGTAATACACAACT
CGGTTATACAAGGTAAAAATGAGTTACTGGCCCTTCAGGATGGGTATCATGATAGCTCATTAATTTAAATAACTCCTAA
TATGCGTGTAGCAGTTTATCAGTTAGAGAGTGCTTTACATGGGTTGCTTTTCACAATAGATAACTTAGGGCAAGTGAAG
GCCTGGGTCTGAAAACATATTCTGCAAAATAAGCCCCTCACTGTTAAAACCTGGCAAATGCTAAGGACTCCACAGCTAG
AGCAAATGGCTTCTATAGTTGAATAATCTTTCAATAAAGTTAGAAAAATGGGTGTCCTTCTTCAATGCATAGCATGTTG
GGAACCCAGGATACTTTAGAAAGTCTCTTGGTCCAGCACTCCGACTTGTGAAAGACAAATATTGTCATACAATGCTTTG
GCTGATCTCTTATTTCTTGTCAACCTAAGGTACAGTGGGTATTAAACTCTTTTAGCTTCCTGAAGACAAACTAATTCCC
GACCTCCCTGTAATAATTGCTGAACATGGGAAGTTTTGGGGTCTGAGTTTTAATTCCAAGTAATTCATTATGTCTGTCA
TTGTCTGTGGTAGGTTGCTTGCCCACCACTTTGCCAGTATCATTATCTGTGACTTGAGGCAAATGGTAAGGACAGCTTG
TCTGAGTCTCAGCACTTGGGTGGCAGATGTGACAGAGATAGATAAATTGGCCAGAGTGAGTATTTTAAACCAGAATACT
GCCCCCAAGCCCAGTATGGGACCATCTACAGTATGGAAGGCAGCTCAGACATAGGTCAGTTTGTTCAGGAGACCACACA
TTATGATCTGTTGAGCTGTTCATCATTTTCACTTGAAAATGAGGGGTGGCTGTTTTTAGGCTGTCAGCCTCAGATTTGA
ATTCTATAGTGATTAGGTGGTGAAATGGCTGCTCTCTGCAGACTGCTCAGGGGCTGTTAGAGCTACACAATTGCCCTAA
AATCAACAGGAGCAAATAGCCTCACCAAACCAGCCTTGAGTCATTCCTTTAAGTGAGGGTGATTAGGAGGGTCAGCTAT
TTTTAAGAAAGAAATTCAATAATCAGTCTGTCCAGAGACTCAAAATTATTTATCATGGCATTTTCCAATGTCACCTTTC
CTCACCATCACTTTGTTGGCATTAGGCTTTGAGACATGGTTCTCACCAGCAAGATGGTTATTTTTATGTCTTATCAAGG
TCTCTAACAGGTCCTATGACACGCAAATGTTAGAAAGGAGAATAAAGCAACAATTGAGTAAAGCAATAGTACAGTGGGA
AGAGAGACAGGAAGATGATGTTGCCATGTTTTAGTTTAATATAAATTGTTAATATCTTTGTCTCAGTCACTGTATAGAA
ATAAAATATTTTCAGATTAAAAGATCCTAGATCTTCATTGAATCCTACCTCTCTTAACCTCAGCCCTTTTGGAAAACAG
CACAAACTCCAAACTGTAATTCAAGCTCTAAAATAAAAGGCTGGGCTGGATCCAAAGTGTTTTCAATATTTTTCTGGTA
GATTTTTACTGGTTTTTCATGAAAAGCACTTAATTCAAATATTATTCTTCCATCTTTTAATGTTTTAGTCAACAGTAAA
TGATACTCTCTTCTGATATACTCCTCTCAAAGTGGTAGAAGAGTTTGTGGCAAATTGCCATTTCAACCATTTATTCTGC
TCCAATAATGCAGTATTGAATACACTGAAGCACGGAAAAAATTAACTAAACTACTTTTATGCACTTTCAAAAGAAGCAAC
AGAAAAACTTGGCAAAGTAATAATAGTGAAATTTTATTGCTTCTCAATAGATTAATATACTTAATAATATCCTAGAAAA
TGCTGCACTTTGAAATTTTAACATGTAACAGTGTATATCTTAAATTAAAAATAACTGTATAGTCCAGGGTGGTTATTTA
TACTTTATATAGTCTATATTCTTTGTGAGATTTGGGTTTAAACACATCAGAGTTTAAATTCTGCGAAGACTGCAGAGTA
AAGAAGATTAAGATGGAGGGAAGGAGGAAGAGCAGGAAGAGGGAAAGTAGGTATAGAGGAAGAAGAGAAAAGGAGATAG
TAGAAAGGGGAAAGGAAGATGGCAGGGAGGAAGGAGAAATACCTCAAGTCCATGAGGGGTTAGTGCTGAAGGATACCTT
CATCATTAAGTAAAGGGTGAATTGCACTGGGTTGTTTAAAAGCATGCCCAGATACTGCTGGGTGCGGTGGCTCACGCCT
GTAATCCCAGCACTTTGGGAGGCCAAGGTGGGCAGATCATGAGGTCAGGAGATCGAGACCATTGTGGCTAACACGGTGA
AACCCTGTCTCTACTAAAAATACAAAAAATTAGCCGGGCGTGGTGGTGGGGGCGTGTAATCCCAGCTACTCGGGAGGTG
AGGCAGGAGAATGGCGTCAACCCCGGAGGCGGAGCTTGCAGTTAGCCGAGATGGCGCCACTGCACTACAGACTGGGCGA
CAGAGCGAGACTCCGTCTCAAAACAACAAACAAACAAACGAACAAAAACAAAAAAAAAGCATGCCCAGATACAATCCTA
AAGTATGCCCAGATACAATCCTAATGCAAAATTTTATCAGATGGAAAAGTATCAAAAGCTGGAATAAATAGAAAAAGGA
GTTCATGAAATGTATTCAAAGAAATTTTAAAAATAGCTCAGGTACAGAATCTGTTAAAGCAACAAAGCAGACACATGAC
TCTTCTTAATCTTCCACACTTGACTCCACGGCATTAAGTTAACACTTCCTTAGTCTCCTCTGAGTTGAGACAAATTTCC
TGAAAGGAAGGTTGACATTCCCTGGACACTTTAAGGATCTGTTTGTGCCTCATGGGTATAGGTTGTAAAAGTTCTTTGC
ATAGATATGTCAGCATTTTAGTGCATTGTTTGGCTCCAAGTGACCTTTCCTCCCTGCATTTCCTCATTTGCCATTCATC
TTCTTGCTTCCCTTCGTCTGCCATAATAGTCCCTGGGGTATAGTATAAGTGCTTCTAGGGCACTCCTCTAACTGCACGG
TTATTGTTACTGCACAATTAAAGGACTTAGATATTGAAAAATGGTAGTGTTTGGAATTCTGCAATCTCATTCCTTAGGG
GCAGGGAACAATTGGAACACCTAAAAAAGGGTCAGAGTCCAGAACCAGATTCAGGAGAGAGTTCAGCTTTCAATTGGGT
TGGTCCATTTTTCAGTGCTGCCCGCACGAGCTGTCAGTTGCTGGAACTGCAGAGTATTTCAAGGAAAGGCGCGGCTAAG
CAGAGGTGAAATCTTTAGACAGATGAGTCTCAAAGAGGAAATTATGCAGAAGCCAAATGGCTACAAATGGTACTGAGGA
TTGAAACCTAAACTATAAGTGAAGGTCTCTTCCCTAAATGATACACTCAGACTTAACAATAAGCTAATAAGGTGGTTCA
ATAAAGAAAATGTGGGTCTGATGGAAGAGTAGAGAGTTTAGAAGGTGAGTAAGAGATATCTATGATATTAGCTTGGGTG
TGTTTTTGGTATTGATGCCATTGTGTTGGGAGTACAGCAGAAGGACAAAGAACTCCTTTAGCAACTTGGCCTGCAGTCA
AATAGGCCAACATTGGAATCTGAGCTCCACTGCCTTCTTCACCTGGGACTAATCACTTACCCTCTCAGTCTCCTCATCT
GTAAAAAAAAAAGGATAATAATAATAATAATTGTTACCTTTGGAAAATTACACCTTTCTCTTCTGTACCTTTAACCTTT

Fig. 6.145

CTCTCAACTAGATACTTTCCATGAGACTCAAAATACATTCAAGTGTCTTCTGCATTAAAAACAAACAAAACAAAAACCT
CACCTTCAACCACTTATTTCCCTATGTTAGGGTTTCTCTTGACGTTTGGGGCTAGATAATTCTTTACTTTGGGGCTGTT
CTGTGCGTTTTGGGATATTTAGCAGCATTCTTTACCCATGAAAATATTGTGTCCCTCGCCCCACAAGTTGTGGCAATCA
AAGTTGTCTCTAGACATTGCCAAATATCTCCTGGAAAGATGCCCACCCCCCACCCCAGTTAGGAACCACTATTCTAATG
ACTGCCTCATCTCTTGTCTCCCTTGCAAAGCCACACTTGCCCAGTTTTGCCTATTCTCTCTAGCTATATTCCTCACTTC
CCTATCACAGCCGATCCTATTCTAGTCTGTCTCTTGTTCCCATTTTACCAATAAAATCATTTTTAGTAAGAAGAACAAT
AACCTGGATAGTTCTAAATGTAATGAATATTGCAATTCTTCTCTTCCTTGATTTCTCACAATTTGAAGTGTGTTCTTCT
CCTGGCTCCTCTGACACTATTCTCTCTCGGCTTGATCTGTGAAGCCTGGGTCTCCTGGAATAGCTGCAGCCTTTCTCTC
CACTTTCTTACCATATTCTCTCACTGTGTCCAGGACACTAGCTCAGACTTTTTCAAATGCTGATTAAAGGGCTTCCATG
CTGACAGAGGGCAAACCTCACAGAGCAAGCTTTTCTTAAGCTTTTGCTTATATCACATTTGCTAGCACTCTCTTGGCCA
ATGCCCAGAGTCACATGGGAAGAGCCTACTGAAGGCAGAAATACAGAGAGAGAAGACTTTTGGCATAACATCTTGAGGG
CTTCCTTTAACCCACTCCCCAGTAAAACTAGTGAAAACTATGATCAAACAAATAAAAACTCCAAGCACTTAAATCCTCT
GGAAATGATCCTAAGGACAAATAGCAAATGAAGAAACATCTATTAAGAACATTTATGAAAATTCAATAAGAAAGGCAA
GCCTGTGGTATTTAAACCAAGACTGCTCCCTCTCACCCCCTTCCAAGTTCAGGGAGATGGAGCTTCCATTCCAGGCTGG
TGCAATCAAGAACACAGAGCTCTCTCCCCTCCAGCTGGAAGGTTTCTTCCTGGAAGGAACAGAACTTCAGTGTTTCTCA
TCCTGGCCATAGTTACCCATTGCTAAGGCTAAGCTCTGGTGAATACAGTAGAGAGGTAGGGGCTTCCTCCCCTGCCAAA
TCCCCCATCATTGAATGGAGGGGATACCTTAGGCACTGCATGCTAAGAATACAGAGGCCTCATCATCCTTGCCTGGCCT
CCTGAGGTGGGGGTTCCACACCAGGAGAGATAAATATAGAAGATATTAGAGTGCTGCCACCTCCCAACTAAGCTAAGCT
CCTAGAGTGGGAGTTTCATGCAGTCATGCAGGAAGAACCTCTCCATTTTCTCCACCTCCATCTTGAGAAACATGGCTTA
GAGATTTTGCCTGGTGGTGGCGGGGGCAATAATCCATCATAAAATAAATATTCTTAATCTCTTCCCAAAGGGCATGGCT
TCATTTGCAACAAAGTATGGAAAAGTTCAAGCCTTAGAGTGCGCTCAAGAACAGTGGAAGCTATGGTGAAAGGCAATTG
GGAGGAGAGTCAAGATACAGGCTAAATTGCAGACTAGTTTGCAGGAGAGAACCAGAGAAATAACACAGCTGGGAGGAGC
CCTGACTTCGAACTATTTCTTCAAAGGAGACACAATTCGATTGTATTAGTGTGTTGAACAATATAAGGTTGTAAAGCAC
TGTTGAAAATAACACAGCAATTGTTCACCAATTAGTGGAGTTGAACAGCTGAATGTGGTTAAGGAAAGAGTGAAGGACA
ATCACACGAACATCACTCTCATGCCGGCTGGGCTGTCTGTGGACATACCCAAAGATGTACCTCCCTGATAGCAAACTCA
GTGACTTAACTGAGGGAAATTAACTCACCTGACTGTGAAGGAAATATACTTATTAAAATAATCCAGCCCCTCACTAAAC
AACCAAAGAATAATAGCAAGCCCTGGGTGGTGGTAGGGGGAGTAAGAAGAGTTGCTACAGTATATTATCTGCAATATCC
ACTTTCCAACCAAAGATCACAAAGCATGGAAAGAAACAAAAAATATAACCCATACACAGGATAAAAGAACCAGATGGCA
GAAACTATGGGTGAGAGGGACCCAGATGTTGGATTTAATAGAGAGATGGAGAGGAGAATGAATGCAGCCAGTGTGCAAT
GTGTCATGTCCTCTAAATGTTCAAGTCCCTCAAGTCATAGATCCACCTATTTTTTCTCAAGTTAATATCTCTACACCTA
GTTTTAATTCCCTGTCATGTATACAGGACTCACACATTTTATCTTCAACTTAGGCCTTCCCTCTGAGCTCCGGACCTGT
GTATCATTCAGCCTTTTTGAAATCTCTATCCATATGTCTCAAAGGCACTTTTGATTAAATACTACCAAAAATTAACTCC
CTCTATCTCCCAGTGTTCTCTATTTCAGTGAATGATACCATCAAACATCTACTTTCAAAATCAAAACTCTGAGATAAAT
CTCTAACAGCTCCCTGCTTATCACCCCACCCCATCATATTGAAAACCAAACCCATTTAAATACCTTTCGTTTGTGTCCT
CCTCTCTCTACCTCCACCACCAGTACTGTAGTGTAATCTGCCATCATCTCTCACATGGATTACTGCACAAGTCTCCTAT
CTGGTGCCCAAATTAGGAGCACCCTCCTAACTGGTATCCAATCTAATCTCTACACTGTAGCCAGAAAAAATCCTTTGAA
ATTCAAATCTAATCATGGTATGTGCCTCCCCCTTCTTCTATGGAGACCATAGGAAAGAAACCGAAACTCCTGTGGTGCT
TGAGTTGATGCTAGTAACCTCTAAACCTCATTTCATGCCTGGATCTGTCACTTCCTGAAGCTCCATGATAAAGCACAGC
CTCCTCACCCTCCAAGTGCGGGGGTTCTCTAGTTGTCTCTTCCAGGTGCCACCAGAGGGACTTCTCTCATAAAAGGCCT
GTGCACCCTATGCTCTTTCTCTCTCTGTTATGGACTTCCTTCCAGAGAGCTGGTCCCCATTCCTTGATATGGGACTGTC
CACTTGTATGAGTAATAAAAATCCTTCTCTGATCATACCAAAGAATTGGTGTCATGAGTTTTTATATTAGAAGCTAAAC
TTGAGAGGGAACTTCCCCATGTCACAGTGAAGGTGTGATGATACCCTCTTTCTACCATCTTTAAATTCTTCCGTCGCTT
CCATTCCATTTTCTCTTAGGATAAAGTTCACAATCCTTAGGTTGGCCTACAAGGTCCTCTACAGTTAGGTACCCCCGTC
TGCTTTCCTTCCTTCCTTCACATTAGTTATGCTCCCCACTGCCTGAAAACATGCAGACCTGCTGCATCCTCTACCTGAA
ATACTCTTCTCCTCACCCCTGCCAGACTTTACCTAATTTGCCCTTCGTTTGTCTTTGTAACACCGCTCAGAAATCTCTT
CCTCAGAAAGGCCTTCTCTGACACCTCAGCACAGTCCTCCTCACGAGGTCAGATGTATTTTTTCTTCAAGGCACTGACT
TTGGTTTAAAATTTGTATTTATTCATGTAATTATTTGGAGTGCATTTATCTTCCTCACTAGATATAATCACCATTAGCT
CAAGGGCTTTATATGTTTTGCTTGCCATTGTGTCCTCAGTGCCTAGGCCATTCACTGACCCACAGTAGGTGCTCTGATA
AATATTTGTTGAGTGTAGAATAAATGAAGACCCTTAGAAGCATAAAATATATAATCTCAAAGCAGAAGATACTTTAGTT
AGAATAAGTTAGGTTCAACTATATTAACACTCCTTACTACACACACACATAGCTACACTCATCAATTTTGGTGGCTTAC
ACCAAAAAGGCTTATTTCTTGTGCACACTGCATTCTTGTGCTTTAACAGGATACTCCGCCCTACCTCATCTTTATTACA
GACCTTGGCTGACGGAGGCTACCACTTGGAATATTGTCTATTTTCAAAGTCCAGCAGAAGAGAAGTTAAGAAGGGTTTC
ACTCTGGCAATTAAATATTCCAGCTAGGAAATGACATACTTTATCTTCATATACAATCCATTGGCCATAACTAGTCTCA
TGGTCCTGCCCATTTGTAAAGGGGAAATAGGTAATCATCTCATGCATTGAGGAGGAAAGAAGAATTAGATACATGTGAC
CAGTAGAAGTCTCCTTACTGACATTTTAATGTAGAGCTGTATGTGATTAAAGTTAAAATTGAATCTGAAGGGCTGACAG
AAAAATTCAAGAGGATATGATATTTAATAATTGAACGAGGCTGAAAGATGAAATTTGGACAGATTCTGAAGGGCTGACAG
TGCTAGCAGGAAAGACAAAATAAACATAATCAAGAAGTATGTATGAACGTGTGCCCAGGGCAGTGAGGAGTGATCAGCC
TCCTTGAAGTGGAGGATGTGTGTCAAGGAACCAGAGGAGATGATTAGAGTGGCAGACCTGATTATTAGCATATCCATGC
TTCTGTCTGAAGCCTTTTTGGCCTATAATGTAGAAATATCCTTGGAGTAAGCAGTTCAGCATATGGTTTAGACATATA
GGTCATCTTGGCTGGATTGCATATTCTTCATTTTTAAAATTCCAGGCTGTATTGGTTGATATGCAGTCCAGAAAGAGCT

Fig. 6.146

GGATCTGACTTAAGAAAATAAAAACTGCTTTAATCCCTCTTTTCAGCCCATTGTCTATCCATTAGCAGGTAAACACCAG
TGTCCCTGCAAGTGTGTGAACTGAGCTTCCTTAATTTCACCTTTAATTGGCACTTCTAGTGACTTAACTGAGTGAAGAG
ACCCTTAGCAATGATACAAAGTGAAGGATGGTATAGAATAATAGGTTTTCTGAAAACCTGAATGCAATTGAAGGGTGCT
ATTTAATAAATCTGTCCCTAGAAGCTAATAGCACGTAGTCAATACAATTTAGCCTATTTTCTCCCATGTTACATTTGTT
AGTTGTACTGGTTTTGGAAAAGGAAAAGTCATGCTGTTACAGTTCCACTAATAGAAAACAGATAATTTGGGAGGAAATT
AGATTGGAATAAAAGCACGTTGTTAAACAAGAAATCACAATAAAGTATTGAGTAGAGAGAAACCGTTAATGGAGACAGC
TATGTCATACCTAATATGCCCTCTTTTCATTGATCCTTAGAGGAAGCATAAGATCGCAGCTAAGTATGGTCTCTTGAGC
CAGCCTGCCATGATTCAAATTGAAACTCCATCATTCACCACTGTGTGACCTTGAGAAAGTTATGTAATCATTCTTGGAT
AGTGATTCTTACTGCTATGGACAGATTTGTGTTCCCCCCAAATTCAAATGTTGAGGCAACTGTGTGAGGAGAGAGGGCC
TTTAGGAGGTAAAGTTAAATGAAGTCATAAATGTAGGGTCTTAATTCAATAGGATTAGTGGCCTTATAAGAAGGGGAAG
AGTTTTCTCTTTTTCTTTCTCTACTTGCCTGCACCAGGGAAAGTCCTTGTGAGGACACAGTGAGAAGGTAGCTATCTGC
AAACTGGAAAAGAGTCTTCACCAGAACCTGACCATGCTGACACACAGATCTCAGACTTGCAGCCTCTAGAACTGTGAGA
AAATAAATGTTGTTTAACTACCCATTCTATGGTATTTTGTTATGACAACCTAAGCTGACTAATACACTCACCTATAAAG
CAGGGATAATAACAGTGCCTATATGATAGTGTGTTTACAAGGATTTAATATATGTTAGTTTATATTATTTTATGTCCAT
ATATGTTAGCGTATATATTATTTTATGTCTATCTCTAATTCCTCATTGAGGATACTTAAGAATTCTACTTTCCATGTTT
GACAGACCTGGTTTGGATTTCAGTTCCACCTCTTGTAAACTCTATTACCTTGAGCCAGTGACTAATGTATCTAAGCCTC
CATTTTCCTATCTGTAAATGGGGATGATAACTAGTGCTGCTTGTCTCTTCAGGTTGTTGTGAGGATTAAAGGAGATATG
CATGACAATTCATCTGCCAGGTAGTAAGCATTCCAAATATGCTATTTACTGCCATCATTAGAGGTTTGCTGAGCTTCCT
CTTTTGCATTAAGTAAGAGACTATTCTCTCCAGAAAACTTTGAACTACATGATGGAGGAACAAATAATAGCAGTTTCTC
CTCAACCTTGGAACTCTAAAAATGTTTTTTCTAAGCCATTCTTATCTTTATTTTGTCATTAAAAGATACATGCATTGTG
CATTTTGCTTTTATTTAATATATGCCATGAGTGTCTTTCTCCCTATCATGATGTCAATGTTACATTACAGATTCTAAGG
AGCAGGGGCCATATCCCTTAAACATGATTTATTTAAAATAACAATATAGGATTGGATGTGACTACTGCTTTTGCAATGA
AACTGAAAGATGGGAGAGTGAGATTTTTCTCACAGCTATGGAGTGGCAGACCTGAGCACTAAAATCCAGTCTCAGAACC
CAGTTATTATCTCACAATGTGAAGGCAGGAATCTATAGACAGATTATTGAACATCTCATGTATCATATCATGTATATCA
TTAAGCTTATATGTATGACAAAATAGTATTTTGTGCAGCAGTGCTTCTCAAACATTAATAAATGAATCACCTGAGGATC
ACATTAAAATTCAGATGCTGATCAGGGAGTCTAGAATGGGACTGAAGTGCTGCATTTCTTTTCTTTTTTTTTAGACTTT
AAGTTTTAGGGTACATGTGCACAACATGCAGGTTAGTTACATATGTATACACGTGCCACGTTGGTGTGCTGCACCCATT
AACTCGTCATTTAACATTAGGTATATCTCCTAATGCTATCCCTCCCCCTTCCCCCTACCCCACAACAGGCCCCGGTGTG
TAATGTTCCCCTTCCCGTGTCCATGTGTTCTCATTGTTCAATTCCCACCTATGAGTGAGAACATGCGGTGTTTGGTTTT
TTGTCCTTGCGATAGTTTGCTGAGAATGATGGTTTACACCGTTGGTGGGACTGTAAACTAGTTCAACCATCATGGAAGT
CAGTGTGGCAATTCCTCAGGGATCTAGAACTAGAAATACCATTTGACCCAGCCATTCTGTTACTGGGTATATACCCAAA
GGATTATAAAACATGCTGCTATAAAGACACATGCACAGGTATGTTTATTGTGGCACTATTCACAATAGCAAAGACTTGG
AACCAACCCAAATGTCCACCAATGATAGACTGGATTAAGAAAATGTGGCACATATACACCATGGAATACTATGCAGCCA
TAAAAAATGATGAGTTCATGTCCTTTGTAGGGACATGGATGAAGTGCTGCATTTCTAACAAGCTCCTAAACGATGCTAA
ATCTGCTGGTCCTCAGACTACTCTTTAAGTAACAAGGATATAGTTGGTTTTAGCAATAGTGACTTAAAGATTTTTTGCT
ATTTTTGTTTTTATCTACCCATTTTTGTATTCACTAAAATGTGTTCTGGATGCAAACTTCTTTAATACAAAGGGAAAAT
AAATTAAAAGCCAACTTTGCAAGAATTGAATTACACACATTTTAAACTTAAAATGCTTCGGTTCATTTCTCTGTATGTT
GTGTATTCCTAAATCATTCACAATGTCTTTATTTTTTACCCCTTTTTTATCAAATGAGGAAGTAGTACTCCTCTGACTT
TTTTCAGTTTTTATCTTCCATAACACATTAAATCACCTCAACCTTCCTAAAAAGCTCTCCTTGTTTTCTGACTTTTAAC
TGTCTTGAGTCTCCATTTCTCAACCCCTAAGTCATGCCCAAATCCTGTTCTCTGACATTTTCTCATCTCTCTTACTTTC
TTCTCCTTGGGAACTCCCATCCACTGCCACATATTCAAACATTAAATTCAGCTCTCTATACACTTCTGCATCAGTGTCT
TTCATTCCAAAGTCTTTTCTAAGTTTTATTCTTCTATGCCCAATGGATTGGATACTTATGACCTCACAGCCCTTTAAAC
TCAACATGTCAAAAACCAGAATTCATATACTTCTTACTGTTAGGCCCCAAGCCATCTGCCCACAACCACCAGGTTATAT
TGTTCCCTTTATCAAAATTTTCAGTGATTATATTTACGGTGGAATAAATTTTTAACTCTTTATTCTGACATTGAAAATT
GTCGTCTCTCCAACTTCAATATTTTTTTGTACCTATATCTTCCATTGCTTTTAAATATGTGGTTGACTTAAGTTTGCCT
GAATCCTGTTTCCAGAATGTGCCTGGAAACTCCCAACCTCCATGCCATTTCACTCTGAATCTAAAGATCTCGTACCAAT
CTTTGCTTATTCAAATGTTGCATATCTTTTAAGGCCTACACGAAATGCTACAACTTTTGTGGTATATTCTCTAATCCCT
TACCTGAAAGTGATTGGTCCCTCCTCTGCACTGCTATAATGCATATTCTTTGCTATTTAGAAGACAGCCCATGCTGCAC
TATATATTATAGATCTATGCAAATATCTGCCACTATCTGAAACTTCAAGGCTCCATCTCTTCTCCATTATTCCTCCAAA
CACCACTCACAGCAGGTTGTTGTCAGTAATAAAATTTTATTGAAAGTTTTGGGGATTATGCAGGGCAATTATAGCAGAA
GCAGGAATCAACTGGAATTAGAGTGATAGAACCACAGCCCTTAGACATGTATCAGACACTCCCTGACCAAGTCTGTCCA
TGGACACAGAACTCCTCACCTCCAGATACTTCCTCTTGCATCTCTTCTACCAGTATCATAACCCTCACAAAAATGACAA
AACTCAATGCCTTTTACTTCGTTATGCAGTAATTTCCCCTCTTTTGTTACTGTTTAAACTTTCCAGCGCTTTGAGAGGC
CAAGGTGGGCGGATCACCTGAAGTCAAGAGTTTGAGACCAGCCTGGCCAACATGGTAAAACCCTGTCTCTACTAAAAAT
ACAAAAATTAGCCAGGTATGGTGGCCAGTGCCTGGAGGCTGGGGCAGGAGAATCGTTTGAGCCTGGGAGGCGGAAGTTG
CAGTGAGCTGAGATGGTACCACTGCACTCCAGCCTGGAGGATAGATTGAGACTCTGTCTCAAAAAAAATAAAAAGAAAA
AGAAAACCCTCACCTTCTATAATCAAATAGGTTTTTAAGTGTTTTCCTAAGCTTGATAGCACTTCAGTCTCTCAGAGGA
ATTCTGCAGTCCTGCAGTTGTCTTGGGTCAACCAGCCAAAAGTTAACTAATTTGCATAATGGCAGCCCCATAAAATGCG
CAAAATTATTATCTTTTATATGAATGCTTATTAATATATATATATATATATATCTCCTTTTACATCTATCTAGAAAACG
TTTTAAGGGAAGAATCATATAGCTTCAAACATTTTTGTTAATTACAATATGGAAGAAAAGAGAGTTCAATTCCTTAATC

Fig. 6.147

TATCATGTGTGAGTTAGGGGACTTTAAGCAAGTTATTTTCTTAGGAATCCTGTTTCCTGACCTATCAAATGAATGTAAG
AATAGCTACCTCACATAAGTGTGAGGACATAGATAATTTCTATAAAATCATTTAGTTAGAGTCTTGGCACATAGTAGGA
GCCCTGCTCTCAGTACAAGTTTAAAATGTCTGTTGAATGCTAAAAGATTACTCCATTGAGCTTTTTCAAACTTTAAAGT
GAGTATAGTGTTTCACTGTAGGATTCCAAAAGCTGTTTGATGCTATGATTTCTTTCTCAACATCATGTTTACTCTGAAG
ACATTTCCATAGTGTTCTACCCTTAATTGAACAGAGATAGGAAATCACGACTTTAAAACTTTCAGCGTTAAGAGTAAAT
GACACATTAGTTTAGAGACATATCAATAATTATGGAAGTATCTTCTCAAACTGTAATGTTTTCCTCTGCCTTAGTGCTA
GCAATCAAATCCACTGAATTAATCTGAGCAGGGTCAGGACTTTGAACCTGAGGAAAATCACTTGAATTTGAGGCATTAA
GTGTGCAGTACAAGGTGTTCCAGCTACAAATTTTCTGAATCCTATTTCAAAGCAATGGTGCAGGAGACCAGATAGCCAC
CTCAAAACTTCTGAGTCCCATAGTGTTTTGGTATGGCTCCAGAAGCCTGTTGCTGCCCCAGAAAAGGGAGATTTCACCA
TTTCTAAAGGGTTAGCTGCTCCCTGGGGATGACAGATAGGTGGCAAAAATTGGAATGTAGAAATTTTCCTTATGTTCTA
AAATTGCACAGAAATTTTCTAGGGAAATATTCTTTATAGATTTCCCAATTTTGTTGACTAATCTCTTCATCTGAAATGT
TTCCCTCCATGTATGAATTTTCTCTCTGTCTTTCTAAGTCCAGTGTAGAATCGATTTGGTATCTACCGACTTTCCAGAT
TCCTCCAAGTTGGGATAAATCATCATTTCCTCCTCTGTGTTCCTAGTGCATAGAAATAAAATCATTTATCACAATCTTT
GGTTACTGATGATGGTGGGGAGGTCTTTACAGTGTGATGGCTTGAAGTACAAAGTACAAACTTGAAAGTCAGATTACCA
CTTACTTTGGACCTTAGGCAGGTTACTTAACCCCACTCTGCCTCAGTTTCCTCACCTGAGGACTTAATAATAGTAGCTA
AGCAAATGAACTTACTAATAGTAGCTACTTTATGATTTTTATTAGGATTAAATGTAATGGTGCATATGAAATTAGTAAA
CAAGAGTTGCAAAGTAGAAAACTGTCAGTGAATGTCAGCTCTCTCTATTATCCCTCAGAGACTCCTCCTGCCACTTTAG
GTAGAAAGCTCCTTAATAATTGTGACCATAACATGTTTATTTCTTTGTTGGTATAGTCAGTGCTCAATACATTATCTGT
TGAGTTGAACTGCATTTTTGACAGGAGACAACTTAAGTTATAAAAATCCTATTTTCTATTTATACTATCATAAAAGTCG
TGATGGCTATGCTTTTAACACTTGACCTACCTGAATGTGGATGGTTTCTAAAAGTAAAATACCTTTTAATGCTGTTTAG
AGTGTATGGCAGGATCAGAAAGGCATATGTGCCATGGCTTGAATATTTGTCTTCTCTAAAACTCATGTTAAGATTTAAT
CCATGGCCGCGCCCCACAGTGGCTCAGGCCTGTAATCCCAGCACTTTGGGAGGCCAAGGCGGGCAGATTACGAGGTCAG
GAGATCAAGACCATCCTGGCTAACACGGTGAAACCCCATCTCTGCTAAAATCACAAAAAATTAGCCGGGTATGGTGGCA
GGTGCCTGTAGTCCTAGCTACTCAGGAGGCTGAGGCAGGAGAATGGTGTGAACCTGGGAGGCGGAGCTTGCAGTGAGCT
GAGATTGCACCACTGCACTCCAGCCTGGGCGACAGAGTGAGACTCCGTCTCAAAAAAGAAAAAAAAAAAAAAAAAAAGAA
GAAGAAGAAAAGTGTCAGTATAGAGAAGTGAGACCTTTAAGAGGTGATTGGGTCATGAGGGTTCTGCTCTCAAGAATAG
ATTAATTGATTTCTGGATTAATAGGTTTTCATGGGATTGGGACTGGAAGGAGAGGAAGAGAGACCTGAGCTGGCATGCT
CAGTCCCCTTGCCATGTGAAACCTTGTGCCAACTTTGGACTCTGTGGAGGGTCCCCACCAGCAAGAAGGTGCTCACCAG
ATGCAGCCCCTTGACCTTAGATTTCTTAGCCTCCGTAACTGTAAGAAAGTTTCAGGTATTCTGTTATAAGCAACAGAAA
ATGGACTAGGCAGCATGTAAACCAAATTAATCAACATACACAAATTTTTGTAGCACTATTTTACTCTTTTATATAACAA
ATAAAGCCTTAAAACAAATACTATTTTGAAAGAAACTTACATGAAATGGTCATAAGCATAATTTAAACTTTAAAATTAC
ATATGTAAAGTTTTCATTGTCCAAACATGTTGATAGACAAAATGGAAAAGATAAATAGTTTGTACAGTTCTCTCTTCTT
GAAAAGTATTGCTTTGATTAAAATTCATATTGTCCCAACATTGTTTAATTCATAAATAGTAAAATAAATATGGAACATT
TTTTTCAATGCAGTATTTGTTTTCCTTGAAAGCTTTCAAAAGGGAGAGACAAGAATCCCCAGAATATTAGAAATCTTTC
ATATTTTTATTACAATCACTGTAATCCTGAATATTTTTTTCTAGCTTGAAGCCTAAAATTACCAGTACTTTAATATACA
AGATGAAAGTTTGTTTACTCATACCACTGCATATTATTGTTTGAAACAATCATTTCTGGCAATAGTCATACCTCTGCGT
ATTATTGTTTCAAACAATCATTTCTTTCAATGACTCTAAATAAAAAATTCCTGCTTCTCTTTAAAAAGACAGTGGGAAT
AAGTTTCTCTCCTTGAGCAATGGGGCCCCTACTCTGCCTGGTTTTCTTCCCCTTTCTTAGCACAGACACCACTGGAAGA
GCTGAGCCCTCATTTAAGATTGATTCTATATTAGTTTCCTAAGGATTCTTTAACAAATGACTGTAAGCTGGGTGGTTTA
AAACAACAGAAATTTATTCTCTCACAGCTCTGGAGGTCAGAAGCCTAAAATCAAGGTGTTAGCAGGACTTGTTGGTTCT
GGAGACTTTAGGAAAGAGTCCTTTCCTTGCCTCTCTCCTTGCTTCTGTTGATTCCAGGCATTCCTTAACTTGTGGCATC
ATAACTCCAATCTGAGTTGATGGAAGTAGAGATCTCCATCAGTACATGGTCTTTTTCTCTCTCTGATTCTCTTCACTTC
TTCTGTTCTCTTCTAAGGGCACTTATCATTGGATTTAAACTCCACCCTAATCCAGGATGATTTCACCTTGAGATCCTTA
ATTGAATTACATCTGCAAAGATCCTTTTTCCAAATAAGTTCACATTTACAGGTTCCAGATGGACATATATGTTATGGGG
CCGGTTTTTTTTTTTTTTTTTTTTTTTGGAGACGGAGTCTCGCTCTGTTGCCCAGACTGGAAGTGCAGTGGCACGATCT
CGGCTCACTGCAAGCTCCGCCTCCCGGGTTCACGCCATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGACTACAGGCGA
TGGGGCCGATTTTTAATCCACTAACAGGTACCTTGAGACTAGGGCTCACTATACTTTGGTCAGAGATGCTCTAGGCATG
AAGATTATATTTGCATGAAGCTAACATTTTTTCAAGACTACGTGATTGCACTGCTCAAACTTACATTATGGTTTCCAGA
GACAGCTAGAGCTTCCTTGTTCATTAACTTTGAAAGGAAGCATTTTCCCTGGGAAGAGGTGCCCAAGCCTCTTTTGTAA
GGTGGGCTTGTCTTAGGCAGTAACTAAGCCTAGAGTCAGGTCTACTAATAATCCATTAAGATGCTGTGTTAGAAAAATC
CTCTCCAAATATGATGGAAATAAGTATGTATAAGAAGTATTTCACAGATGAACACATTCCCACTTTATTAACCAAGTGC
CTGTGTGCTTGCTTAAATTTTTCACATTTTCAGACACTTAACATATTATAGAAAATAACATCCAAAGAGAACATGATGT
TTAGCTTTTTGGATTCTTTGGGATAAAGAGCAAACCAATTTTGAATTAAAAAAAAAAAGACTGTAGATACCACATCCTT
AAATAACTCAAAAGTTTTGTACCAAAGGCTACTTTTTAAAGTTGAATCAAAATGAAATAGGTGTGAACACCTATGTTTT
GAGAGGCAGAGAAATTGGTTTTTTTAAAAAAGTGGGAATAAGTGAGTATTTTTTAAAATTGAAAAGGGTGTAGATTGGG
TTCCTCAGAGATTGCTAAAGCTGATATCATAAATTACCTAAGGACAGGGAGAATGAAGTGAATTGTGTAAATGTCTACA
ATATTATACTTTTCTTGCTTATACTAAGCTAAACTAGTATGGATGACATGTAGTAAAAGTTATAAAAGGAAATTCATCT
TCACCTGTGTACATGCAAAACTGCTGCATTTGCAGATTAAGTCAAAATTATATATAGAGAGAGACACACACACACATAA
CACACACACACATATATTGAAAATCTTTAAGTACATCTAATTTTTTATGACTCAGAAAAGAATCCTTATTTAAGCCCTT
TTTACTACAGCAAAAAAATGTTAATGTCCATTAAATTAATGGACTTTGCTCTGATTTGGGGATGATAATTGCAGAAATGA

Fig. 6.148

GTAGGGATATATATATGATCTAATATATAGAAATGGATATATAGAATATATATGTATATAGAATATATAGAAATTTCTA
ATATATAGAAATTTCTAATATATAGAAATGGAGCATTTTAAGGTCTGGAACTTTGGGGCTGTCAACAGTTATAAGAAAA
TATAAAGAGAGATATATACAGAGAGAGTAATAACAGGTAGTCCCAGGAGTAGGACAGGAGATTAGTGGCCCAGAATCAA
TACCATATTTGTTCTATTTCATCTTTTTGCAAGACAAAATAGATACCCAGGGGGCTGGGGAAGGTGACCAGTAAGTTAC
TTCCATTATTTTCTTTTTCTTTTTCTTTTTTTTGAGATGGAGTCTCACTGTGTTGCCCAGGCTGGAGTGCAGAGGCACA
ATCTCGGCTCACTGCGACCTCCACCGCCTGGGTTCAAGTGATTCTCCTGTCTCAGCCCCCCGACTAGCTGGGATTATAG
GCGCGCACCACCACACCTGGCTAATTTTTGTATTTTCGGTAGAGACGGTGTCTCAGGATGTTGGCCAGGCTGGTCTCAA
ACTCCTGACCTCAGGTCATCTGCCCACCTCAGCCTCCCCTATTACTTTCTTCCTTTATCCTTTTCTACTGTTTAAAAGC
TCAAAACTTGTTGAAACTCCCTCTCCATCAGATTCTGTGTGCCCAAAGAACTGTCCTTGGAGGAGAGTTTCAAATGTCT
TTCATTTTAATGTCTGGCCTTGGTGATTGTTTAAGAAGTCCCCTGAATGAATTTTTGGGTGAACTCGGGGCCTAGACTG
GCTCAGGAAATCTGGCACTGAGCCCCATATTTACTTTGGCCAAACACAATACTTGCTGTGCAGCCACATTCACTATGCA
CTGCTCACACCACGCAGCTTGAGAGCTTTGTCCCTGATTCAAATCTGCTGGGTATTATTCAGTCTGAAAATTTACTTTT
ACACCAAGCATATAAACAAAATGAAATACAGTTTAAGAAATCAGCTCATAACATTTACAATTAAATTCATTAATCAAGG
CAGCTTATGGAAATGCCACATGTGAACTGTAAACTTTATAAATATTCAAGTAGTGAACAACTAGACAATCACATTGGCA
GCTTTGTTTCAGTATAAGTGATGTAGAATATTACCATCCATCAGCTTGCAGTTTTGTTTTAAAACTTGTTGAACCATGT
ATATCATCAAAAAGAACTTTTGGTTACATTTCTGTTTCCATATGTTTCCCATTTACCTTCCTCTCTAGATTTATGTGCC
TTCGTACTAATTAGCACCTGCACTGAATTCAGAAAGCAGCACTTGAATCAAACCAAGTCAAGCTGTCTGTGAAGGAAAA
AAATACCAAGTTCCAAGATTTCTTGTTAATGGAGATGAACAGTACACTTTGTTGATGTTCTTATTCACATGTGTCTTCT
TAAAGTATGAGAATTTAGTATATGTTCTTTCAGTATATGCAAATATATCCACATGGGTATTTTCAAACTATGCTGCAGT
GTGCTTTGTCTGGTTACCAGTTTTTATTCTAGTACAAGAATGCAGGATGTTATTCGTCACATTCACACTATATTAATTT
AACCTCCTAGGTCTGGGAGGAGAGAGGAGGAAAATTAAAGGAGGCCCAAGCTTTGCATTTGAGAGAAAAAGTGAACTGG
GTCTTGAAAGATGTCTTAAGAAACAAAAGAGAGAAAGAAAATAGAGGAAATGTTAGAAGTTGAGGTAAAAGTGTGTCAT
GGAGTAAAGAAGAGCATGGAGAGAATACTATTAGTCAAGAGAAACTGCAGCTCAAACACTCAAATGCAGAAGCATCATA
AACAAGCTAAATTCCACTCTTCCTTTAGTTCATGTGTTTTGGTCTATGTAAGCTGAAGACAAACTCTCCTTTTTCCATG
CTCCCATACCTCATAGAATGTGTTTGGAAGTATTCTCTCCTCTTCTATTTTTCAGAATAAATTGGGAAAATTGGTATTA
CTTCTTTAAATGTTTGGTAAAATGCAGCAGTGAGGCCATCAGATCCTGGGCTTTTCTTTGCTGGGAGACTGTTTATTAT
TACTTTGATCTCATTACTTACTATTGGTCTATTTGGATTTTGGACTTCATGGTTCAATCTTGGTAGGTTGTATGTGTCT
AGGAATTTATTCATTTCTTCTAGCTTTTCCAATTTACTGCCATGTAGTTGCTTATAGTAGCCTCTAATGATACTTCTAA
TTTCAGCAGTATCAGTTGTAATGTACCCTTCTTCATCTCTGATTTTATTTATTTGTGTCTTCTTATTAAGATGCTATGT
TAGAAAAAATCCTGTCAGAGTCTGGCTAAAGGTTTGTCAATTTTGTTTATCTTTTCAAAAAATCAACTTTTTATTTCACT
GATCCTTTGTATTGTTTTCTTCATTTCAATTTCATTTACTTCTGCACTGATCTTGATCATTCCTTTTCTTCTGCTCGTT
TTTGGTTTGGTTTGATCTTGCTTTTCTAGTTCTTTCAGGTGCATCATTAGGGTTTTTTGTTTTTGAAGTTTTTCTTCTT
TTTTTGATATAGGGTATAAACTGCCCTCTTATTACTGCTTGCAACTGTACCCGTTAGGTTTTGGTATGTTTCTGTTTCC
ATAACCATTTGTTTCAAGAAATGTTTCAATTTCCTTAATTTCCTCATTGACTCACTGCTCATTCAGGAGCATATTGTTT
AATTTCTATGTGTTTGTTTAGTTTCCAAAATTCCTCTTATTGATTTCTAGTTTTGTTCTATTGTGGTCAGAGAAGATAC
TTTCTATTATTTCAATTTTTTTTAATGTTTTAAGACTTATTTTGTGGCCTAACATGTGGTCTATCCTTAAGACTGATTC
ATGTGCTGAGGAAAAAAAATATGTATTCTGCAGCCATTGATGAAATCTTCTGTAAATATCTATTAGTTCCATTTGGTCTA
TCATGCTGATCAAGTCCGATGTTTCTTTGTTGAACTCCTGTCTAAATGATGTGTCCAATGCTGAAAGTGGAGTGTTGAA
CTCTCCAGCTATTATTGTATTGGGGTCTACCTCTCTCTCTAGCTCTAATAATATTTGCTTTATATATGTGGATGCTCTA
GTGTTGAGTGCATATATATTTACAATTCTTATATCTTCTTGCTGAATTGACCCTTTTATCCTTATATAGTGACCATGTA
GTCTCTTTTTATAGTTTTTGTCCTGAAATTTATTTTGTCTGATATAACTGTAACTATTCCTGTTCTTTTTTGGTTTCCA
TTTACGTGGAATATATTTATCTATCCCTTTATTTCAGTACATGTGTGTCTTTATCAGCGAAGTGCATTTCTTGTAGGC
AACAGATTGTTGGGTCCTGTTGTTTTATCCATTCAACTACTCTGTGTATTTACTGGGGAGTTTAGTCCATTGATATTCA
ATATTAGCATTGGTAAGAAAGAACTTACTCTGCCATTTTGTTGTTTTCTGGTTGCTTTGTTTTCTTCTTTTCTTCTTTCC
TTCCTTCCTGTCTTCATTTTAGTAAAGGTGATTTTCTCTGCTAGTATGTTTTTAATTTCTTGAATTTTATTTTTTGTGT
ATCAGTTGTATGTTTTTTGATTTGAGGTTACTACAAGGTTTAGAAATATCATATCATAACTGATTATTTTAAGCTGACG
ACAAATTAAAACTGATTGCATAAACAAACAGACAAGGAAAGAGAAAAGTAATAATTTTACACTTTWACTTTGTCCTCCT
ACTTTCTACTTTTTAACTTTCATTGTTTCTTTTTTTTTTGAGATGCAGTCTCGCTCTGTTGCCCAGGCTGGAGTGCAGT
GGCGTGATCTTGGCTCACTGCAAGCTCTGCCTCCTGGGTTCACGCCATTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGA
CTACAGGCGCCCACCACCACACCCAGCTAATTTTTTGTATTTTTAGTAGAGACGGGGTTTCACCATGTTAGCCAGGATG
GTCTCAATCTCCTGACCTCGTGATCTGCCCGCTTCAGCCTCCCAAAGTGCTGGGATTAGAGACATGAGCCACTATGCCT
GGCTGTAGTTATTATTTTTGATTGGTTTGTCTTTTAGTCTTTCTACTCAAGATATTAGTAGTTTAAACATCGCAATTAT
AATGTTATACTATCCTGCGTTTCTCTGCATATTTACTATCATCAGTGAGTTTTGTATTTTTAATTGATTCTTATTGCTC
ATTAATGTCCTTTTCTTAAGAAATCCCTTTAGCATTTCTTATAGGACAGGTCTGTTGTTGATGACATATCAACTTTTGC
TTGTCTCAGAAAGTCTTTATATCTCCATGCATGAAGGATATTTTTGCTGGATATACTATTCTAGAATAAGAGGTGAGAT
CTTTTTTTTTTTTTTTTCCACACTTTGTGTATGTCATACCACTCTCTGCTGTCAGACATTTTGGAGCGCCACTATATAT
TATTTGTTTATTTTCTCCTGTTGCTTTTAGAGTCCTTTCTTTATCTTTGACCTTTGGGAGTTTGATTATTAAATGCCTT
GAGGTAGTCTTCTTTGGGTTAAATCTGCTTGGTGTTCTATAACCTTCTTGTACTTGAATATTGATATAATTCCCTAGCT
TTGGGAAGTTCTCTGTTATTATCCCTTTGAATACACTTTTTATCCCTATGTCTCTCTCCACCTTCTCTTTAGGGCCAAT
AACTCTTAGATTTGCCCTTCAGAGGCTATTTTCTAGATCTTGAGCTTGTGTTTCATTTTTGTTTGTTTGTTTTTCTTTC

Fig. 6.149

TTTTGTCTCTTCTGACTGTGTACTTTCAAATAACCTGTCTTTAAGCTCACTAATTCTGTTTTCTCCTTGATAATTCTGC
CATTAAGAGACTCTGATGCATGTAAATTACACTTTTCAACTACAGAATTTCTGCCTGATTCTTTTTATTTCAATCTATT
TGTTAAATTTATCTGATAGCATTCTGACTTCTTTCTCTGTATTATCTTGAGTTTCACTGAGTTTTCTCAAAACAGCTAT
TTTGAATTTTCTGTTTGAGAGGACACATCTCTGTCTTTCCAGGATTGGTCACTGGAGCCTTATTTAATTTGTTTGGTGA
GATCACGTTTTCCTTGGTGGTCTTGATGCTTGTGCGTGTTCATCAGTGTCTGGGCGTTGAAGAGTTAAGTATTTAGTGT
AGTCTTTGCAGCCTGGGCTTGTTTGTACCTGCCTTTCTTGGGATGGTTTTCCAGGTTTTCAAAGAGACTTGGATATTGT
GATCTAAGTTTTTGTTCACTGCAGCTATGTCTGCATTAGGGGGCACCCCAAGACCAGTAATGCCATGGCTCTTGCTGAC
CCATGGAGGTGTCCCCGCTTGGTGTTCTTGAATAAGATCCAGAAGAATTCTCTGGATTACTAGGCAGAGATTCTTGTCC
TCTTCTTTTACTTTCTACCAAACAAATGGGGTCTGTCTCTCTCTCTCTGTCTTGAGCTACCTGGAGCTTGGGGAGGGGT
GACACTAGCACCCTTGTGGCCACCACCACTGGGATGGCGCTGGGTCAGACCTGAAGCCAACACAGCATTGGATCTCTCT
CAAGGCCTGCAATGACCAGTACCTGGCTACTGCATATGTTTGCTCAAGGTCCTAAGGCTCTACAATCAGCAGGTAGCAT
AGCCAACAAGGCTTGTATCTGTCCCTTCAGGACATCAAGTTCCCCTTTGCCCTAGGAGAATCCAGAGATGCCATATGGG
AGCCAGGACCTGAAGTGAGAAATCTTAAGAAGCTACCTGGTGTTCTATTTTACGTGACTGACCTGGCACCAAAGCTATA
AGACAAAGACCTCCCCGTTCTTCCCTCCCTTTTCTAAAAGCAGAGGAGACTTTCCCTGAGGCTACCACCACCCTAGACC
TATGGCAAGTGCTGCCTGGCTACTGCCAGTGTTTACTCAAGATCCAGTAGCTCTTCAGTCAGCTTGTGGTAAGTGAAAC
CAGGCCTGAGATTCTCCCTTCAGAGCAGTGGGCTACCCTTTTGCTGAGGGCAGGTTCATAACTGCTGTCCGAGAGCCAG
GGCCTGGAATGGGAGATCCCAAGGGCCTGCTTGGTACTCTACCCTACTGTGGCTGAGCTGGAGCCTAAGCTAAAAGACA
AAGTCCTCTTTACCCTTCTTTCTCCTTTTCTCAAGCAGAAGCAGTCTTTTCCCATAACTACTACAGCTGGGAATGTTCT
GGGTCACACCTGAAGCCAGCATTTCTCAGTCTCACCCCAGGCCCACAGTGAGTACCACCTGGCTATTGCTGCTGATTAT
TCAGGGGCCAAGGGCTCTTTAGTCAGCAGATGATGAATGCTGCCAGGACTGCTTCCTTCCCTTCAAGGCAGCAGGTTCC
CTTTTGGTCCAGGGTATTTCTAAAAATGTCATCCAGGAGGTAAGGCCTGTAATGGTGGGCTCATGACTCTGCCTTTTGC
CCTATCCTACCATGGATAAGCTGGTATCCAAATTGCAAGACAAAGGCCTCTACTCTTCCCTCTCCTCTCCTTAGGTGGA
GGGAAGGAGTCTCACCTGCAGCTGCAAGCTGCTCTGCCTAGGGTTGGGGGTGGGGTGGCACAAGCACTCCTTTGGCTGC
CCCTGCTAGTGTCTCACTAGGTCACATGTCCCCCATAAACACTAATTCTAAACCCATCCCAGCATCAGTACTTGCCCAG
GAATTTCAGTCTTTGTGGCTTAGACTGTCGTTCAAGTTTATTTAGTACCCCAGAACACTTTAACTTATGGCAGTGAGGC
TTGCTGGATTTCAGATTCTGACTGCTGGAATGGGCAATTTCACTCTGGCTAGGGCTGGTCTATATTCTCCCTCCACTGG
CGCTAGCTGAGTTCTGCCCAGTGTTGCTTTCCACTGTGACAGGGCAGCACTGAGTTCCAAAGCAAAGTCCCCCAGTCGC
TGCACTCTCCCTYCCCCGAGCACAAAGATTCACTCTCTGTGCCACGTGGCCACTGCTGACGCATGGGGGAGGGGTGGCA
TCGGCCATTCAAGACTTTCTTTCCTACCCTCTTCAGTGCCTTTTTCACTGATATATAGCTTAAACCAGGTACAGAGATT
GCTCACCTGATTTTTGGTTCTTAGATGGTACCTTTTTGTGTGGATCATTGTTAAATTTTGTATTCCTACAAGGAGGATG
ATTGGTGGAGGCTTCTATTTGGTCATCTTGCTCTGCCTTTCCAAAATAATTTTTATTCTGTAACATGTTGCCCTGTTAC
CCACAAAATTGATAAACCAGACTTCCTTATCTTCACCCAGGTTGTTGGTTAAAATGCAAAATTAGAATTCTGGATGTCC
TTTGAATCATGTTTCCAGGTTAATCTCAAGCTATTAATCAATACTGTCTGAGTACAGTATTTAACCAGCAACCAGCAAT
TAATCTACCCAAGAGACTATCATCAACATCACATTTCAAACAACAAAAATCAATGATATGGTTACAACAAAAATCAGTG
ATATATTTAATAGTCCATGTTTTTTTTCTATAAATCAATATTGCGTATCTGGCACTGTAGTACTCATATCTATCCCATT
TCTTTTGTTGAAATTCTCAATAACCTCAACTTTTGATTTCAAATGTTAGGCCTTATTATATTTAATGAGAATTAACACT
ACTTAATAATGTTCATATTATATGAATGGCCATTATGCTGTTTTCGTGTTTTAAAAAAAGTTTGCAAAAAACATTAATT
TTTTGCCTAAATTATTTTGAACATTAGACATGTTATATTTTAGCAACCCTAATAATAATAATTTTTAATTATTACACTT
AATATCCTGCCCACTTTGAAATATTGACATCATAGAGCTTATGTATGAGACAGGTAATTAAGTAGTTAACATTTAGTAA
GGATGTTTTATGTGGCAGGTACTATTCTTAGCATTATACACCCATTACCGTACTTAATGTTCACACCAACACTATGAGG
TAGACACTTTTTTTAATATACTTTAAGTTCTAGGGTACATGTGCACAACGTGCAGGTTTGTTACATAGGTATACATTGC
CATGTTGGTTTACTGCACCCATTAACTCGTCATTTACATTAGGTATATCTCCTAATGCTTTCCCTCCCCCTCCCCCCTC
CCCCCACCACATGACAGGCCCCAGTGTGTGATGTTCCCCTTCCTGTGTCCAAGTGTTCTCATTGTTCAGTTCCCACCTA
TGAGTGAGAACATGCAGTGTTTGGTTTTCTGTCCTTGCTATACTTTGCTCAGAATGATGGTTTCCAGTTTCATCCGTGT
CCCTACAAAGTTATTATCCTTTCCAGATGAAGAAACTGAAGTTCAGAGAAGTTAAGTGGCTTACCAAAAGTCACACGAC
CAGGATTCAAGCCTGGATAATGTGGCTCCAGGGTCTGTTCCCCTAACCACTATTTCATAATAAGGACTATCTTCCAACT
AACTCTGTATGTTACATACTGCTAGTTCAAAGCCAGGTAGACGAAAAAATACTCCCTGTTTCAGCTGAAGAAGGTTTTC
CAATATATTTTTAGCTGCAAATATAAAATACCACAAAGCCAATTTACATTAAAGGAGAATTGTACATTCAACACATCAG
CATTTCCACAGGATTGTAGAATAATATATTAGAACAAAAATAGTGTTTGTAATAGAAATACAGTTATTTTACTTTGGAG
AATGGGCTTGGAAATGGCAGAGATAAGAATTATAAGTTATTTATAATTAGCTTAATAATTTCGGTATTCTTATCTGCAG
CCATACAGAGTTATGTGAGTTGTGAACTGGGATAGGACATTAAAGCTGACAGGGTTACATCTGGATCAGAAACAAGACA
AAAAAGATATGCCTCTTCATGAGCCTCATCAATGCCCCAGCATATATTGTTATTGCTAGCACAACATTAGGGTTTTGTC
TAAATTTTACTTATGGTTTTAGTGTATTTTAAAATATTTAAACAATAAATTTTATTTTACATAATCTCAATTCAAGATT
TCATACTTATATCTTTTGTTATCAGAGAATATTAATTAAAATTTACCATGTACATAGAAGAAATAGATATATAATATGC
CTCATTTAATAATAGGGCTATGTTATTATAACAAAGCATCTGCTCTGTCTTTCTCTCAACAGACCAAATTAATCTTTGC
CACATTATTCCTTGGACATTTGAGAGGTTAAAATATATGCGCATATACATGTAAAACCAATTTGAAAAATAAAAGTTCC
CAAATGTTTATTCAGTGTCTACTTTGTGGCAGGCACTGACCTGAGGGCCGAAGAAAAATAGGGAGGGTCTTTCCCACAA
GAAGGAAGAAAAGGAACAGATGGTGCATGATTACCAGGTTCAGTGGTTTGCATGGAGTGCTCTTCAAGCACTGATAAAA
AGTGTCTAAATCAGATTAGATGGAACAATGTCAGATATGGCTTTTAGAGGATGTGAATCTGACCTCAATTTGAGAATGG
GTAGTAGTTACCTACATAGGGATGACCATTTATGCATAAAGTACAGATACAGTTAATCCCACTTTTTGATAATGAGGGC

Fig. 6.150

CTGGAATTCTTTCATATCTAATGAAAGAATAAACCTCCTAGAAAGTCCATGCAGATTGTATGGTACACATTTTAATTGG
TGCCTAAGAATGACTGTAGTTGGAGAAAGGAAGGTGAAAACTGAATAATATTCTTGAGCTGAGAATATTTCTATAGCCT
TACTTTAAGCACACATCTTAAATCCAGGCTAAAACTCTTAGACTGGCATTGGCAATTAGCTATTTCATGGATATAAACT
AAGGAGACTTGACGTTACCAACCTGCTTGGGGAGTATTTTGCTGAGTCTATCCAACTGTTATCAATTCGAGAACAATAC
TTTTTAATTTGAATCAACCTGTTTTTTTAAAAAAGGTTTTGTTTTAACTAAATTCATCTGTTCTCCCCACAAAAAGCCA
GTTTGTTTGTACTTACATATCTCTATGTATACATGTATATATTTTTGAGTCTGCAATATTCTTGTCAGAATAATTTTGC
TTCCTTGAATATTTCAACTATTCAAAAATTTACTGGGTTAAAACAACACACACTTACTATCTCACAGTTTCCAAGGGTC
AGGAGTCTAGGCATGGCCTAGCTGGTCCTCTGCAAGGCTGCAATCTAAGGTCACTAGGGTTCAGTTTTCATCTGGAGGC
ACCACTGGTGATGGATCAACTCCTGAGGTCACTCATGATAATGAGAGAATTAATTTCCTTGCAGCCGCAAGACTGACGG
TCGCAACTTCTTGGTGGCTGTTACTTATATCAGAGGTTACGTATCAGAGGTTACATTAGCTCTTAGAAGCCATCCTCAG
TTCGCTACTACCTTGCCCTCGCCATAGACCCTTTACAACAAGCAGCCTGCTTCTTCAAATCCAGCAAGAGAGGAAGAGA
GTGAGTTTGCTAGTATGACTGGATTTTATATAGCATAAGCATAAGAGTGACAGGGCATCACTTTTGCCACATCTTATTT
GTTAGAAGCAACTTAAAGTTCCTGCCCATATTCAAGATGAGGAAAATATAAACAGTTGTGAATACCAGGAGGAAAGAAT
CATGAGGGTTACCCTGATATCTGTCTGCCACATCCCAAAAAGAAAATCTATTTCAGGCTTTGGTATCATTTGAAAGGTT
TCCAGATAATCAGGTAGTCAACATTAAATAATTGTTTGAATGACATTTAACTATTGCACAAACAGGTGCCTCTTTAAAA
AAAAAATACACACACATATACACATACACTTTTTAAAGCAGAGTCCAAGTGTGCCAGTAACTGACTTGAGTATAAAGC
TTATTTTTTTAATGTTATTTATCTTTCAAACCATAACAGAAAATAATTTTATTTCAAATGATGGTTATATATTTTTATC
ATTATTAAATATAATACTATTTTTCTCCAAATTTATCCCACAAATTTTCTCTTTTTTGTGTAATTGATTGTGTATAGTA
TAAAACTATAGGTCACTAGTTTTAGCAACTGATTGAATTTAAACTGATTATGTGTTTGGATTTTCTATATAAGCTAATT
TTAATTACATTAAATGTTTATAGCAGTTTGTAAAAAGAGATGCAATCGTAACATTTTATTCTATATTATTTTAATAAAC
AATCTATTTTTATATAACAAAATCTATAAAGATATTGACAAGAATATTAGGTTATATTAAATGTTTACAAATGGTCTTT
TAGATTAAATAAGTTGCATTGAAATAATGTGCTTCAGTCTTTCAAATTCATTTTAACAATTTGTTCAGCAAATATTTTA
TTAAGCAAGTGTCAAGTATGTACTAAAAGCTTACAACACAAGAGCAACCAAGTCACATATTATTTGAAGCCCTAAATAT
TCAGGGCTATGTTAGAAGAGTATTAATATGAAATAATGAATAAGGACATTAAAAGTCAGAGAGTTTAATTGATATATTA
TAGGTTATAAATTTAGGGATCCTAAAATTGGGATTGGAGTCCAGGTCTTCTGTATCACAGTTTACTGGCCTTTCACTAC
CTCTTGTAGCTCTTAAGTAATAAGTTGCCTTCATTTGTCAGAGAGGGTGATCAGTGCCCTGCAAAGTTCTTTTCATGAA
GCAGTTATAGCTTTGTGTTGATCCATAGACTCTCTGGTTTGTTCCCCATTGAGACCAGCTAAGCCATGAGTCACAAGCT
GATGGTTAGAGTTCAGCTTGGAAACATGAAACAGAATGAGGTTAATGACACAGATCAGAATCAAGCCTGTGACTTTGTT
TTCATTAGTATCATGCTCTACATAAATTTGCTAGCCAGTCGTAGATGTCAAAGTAGAATTCAATCTATACATTAGTTTT
TCTCTTCCTCCTTTGACCTCCAGCCGTGTAATGAAAGACTTCTTCAAGAAGGATGGCCGGGCATGGTGGCTCACACCTG
TAATCCCAGCACTTTGGGAGCCCGAGGCAGATGGATCACTTGAGACCAATAGTTCAAGACCAGCCTGGCCAAAATGATG
AAACCCCCTCTCTWCTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAATTAGCCGGGCATGGTGGTGCACCCCTGTGGTCC
CAGCTACTTGGGAGGCTGAGGCAGGAAAATTGCTTGAACCCAGGAGGTGGAGGTTGCAGTGAGGTGAGATTGCACCATT
GCACTCCAGCCTGGATGGTAGAGTGAGACTCTGTCTCAAAAAGAAAAAAAAAAGGAATCTATGTAGTTTTATAGATTTG
CAAAAAATACTATATTCCCAATGTATGCTGTGACTCTTAAAAGTATTTACTAAATGTTGCCAATATCTAGAACCATCTC
TTAAAAAATATTTCAAACATATCAGTGTTAACAATTAATGGTGAAACAACAATGTGATTAAATGGTGTTTTAAGTAGGT
TTTAAAACCAAATTATATGTACATTGCATTGGCTTGTCAGACTCTAGTTATTAAATGCATCGATTTTACCCTGGGAACA
CTCTTATTTCCCTACAGTTTACCTTTTAATAAGTGCAGTTGGCACATGTTTTGACCAGAGTTATTATATGTCTTATTGT
TCACTGTATGTCTGGGACTTTTTTTTTGTTTTGCATGAACTTGGCAGCAAATTCAAAACTTTTCTCACATTAATAAAGCT
ACTGGTTAAAATATGTCAAGGGCAGAGTAGCTCATTCTTGTAATACGGTTGTATATACACACACCTTTGTTTTGTTGTT
ATAGAAAATGCTAATTAGTATTTCCTGATGACATGTGAGCTTGTTGCATAGATTATTTTCCACTTACCTTAGGTCTTGG
TGTATTAGGCAGGCTGCGAAGCACAGCTTGCAGGGGAGGGCCACCATTGTCCTTTTCTCCTTCAAATATTATATAAAAG
TTCAGGAAAAAAAGCATTCTCATAGATTATATTTTGTGACTGACTACCCGTATTTTGGGGTTTGTGTGGTGTGATGAGT
AGAGATTAAATAATGGAACTAACTTGGTTATAGATAGTTCTGGGGACTAGGAGATTAAAGACAATAACAGATGTGGGGA
AAAATTACTTTTGTAGAAATATATTCAAGAGAAATTATTTCAGAGAAATAAATGTATGTTTCATGTTTAGTTCAATGTTAT
TTTCAAAGGATTATGTACAAGAGAACCCCCACTGTATTTTTTCCGGAGTGATGATGTTCCTGATAATTTATGTCACCAA
AAAGAAATGTGTTCTAAATAAATGAAAATTACCTTTAGAAAAATACCTGATTTACTCATACTTCCTATTAAGAGTAAGA
CACGAATATGAGAGGGAAAAGTAATACAATCCTGACATAATGCAATGCCTTAGTCCCTAGTGAGGTAAAATATGTGATA
CATATATGTTTAATGGACATTATTGTGAAGAATACAAGAACAATGACAGTTATTTATATTGCAACTTAGAAAGGATACA
AATGAATGGTTTTCTTTCTCAAAACAAACTGTAAAACTAAGGCAAACCATTTTCCTTTCCAAGGTCTGCTGAAGCTGAC
AGCTGCCACAAAGCTTATTCCCAGTGTTCTCCAATATGTAGCCACAACAAGTTGTTGAGTCCTCTTAAATAACTAATGT
CAGTTATTAATATAAACTTTAGAGTACTCTTAATTGTGATTGCACCATCTCTTTCCTTGGTTTCTGGGACCATTTCTAT
TCTTCTTCCTATGGACTCACCTTTCTTCAGTGTCCTTTTCTGATTCCTTCTAATTTGTCCAATTCAATCCTCAGACTGT
TCCATTCTGCCCTAGYTGGTCATCCATTGACTGACAATTCACAAATCTATTTCTCCAGCTTCAGCCACAAAAGAGAGTT
AATATGTCCACTCTAACTCAGAATCTCTATAGAGAAATGTACAAATTATACTCAAGGTAGACAAACACAAGTACACTAT
GTTTTTGTACTCCACTTGAAGCTTTAATAGATTCTCTCCAACTTAATCTGTCTTAAAACAAACTCTGGATTTACAACYT
TCAAACSTGCTCCTTCCCCAGAAACCCCACTTCACTCAATAGAAGCACTATAATTTGGGTTGCTAAGACCAAACATCTT
CAATTTCTTTTCCTTTCTTTCCTTTTACACACATACACACACACACWYACAYACACACACACACACACACACACACACA
CACACACCCCTATCAGTAAATTATAACCAAGCCTTAACTATACTTCCCCTTCTCCTACCTACTTCTTCCACGCCGGGCC
AAGCCAGTTATCTTTCTTAATTGTTGAAATAGCTTCCAATCTGCTATATGTATCTCCACACTTGCCATTCTACCGTCTG

Fig. 6.151

TTTTCAACATGGCAGCCAGAGTATGATCTTCTTAAAATAAAACTCAGACCATGTCACACTTCTCAAAACCTGTCAAAGG
CTTCCATCTCATTCTGAATCAAAGTTAAAACCTCTTCCCCCAAACACACACACACACACACACACGCACATGCACACAC
ACACACACACACACACACACATACATCTTCCTGGCTTTGTCTTTTCTGATCTCTCCCTCAACTTGCTCCAGCCACACAG
GCCTCCTAGTTGTCTTGCCCTGCCCCACAGACTTTGTCCTGACAATCCTGTCTGCCTGTAATGCATTTACCTAGCTTCC
CTCAGGTCTCTGCTCAAAAATCACCTCAACAGAGAGGACTTTCCTGACCACATCTTGTAAAATTGCATACCTCCCTCTC
CCAGGCTCCTTACCTTTCCCAGGCTCCTTAACCACCCCCCATCTTTGTTTTTCTCCACAGAACTTATTATCACCTGATA
AAATATGTATATTAATATTGTTGTCTATTGTCTACTTTAAGGATGACAGGGATTTTGTAATATTTGTGCCATAGTCTAG
CACCTAGGACATGTAGTAGTTATTCATATGTATTAAATAAATAAGTTATATGAAATATATCATTTAACAGCTGATTTGC
ACAAGTGGGAGTCAATATGTCAATTTCAACTTAGAATTTCTGTAGAGAAATGTACATATTCTACTCAAGGTGGCCCAGA
CTATTCTTAAACCATATTTAAGAAGGTGAAATAGAGATATGATTTGATGGTTTTTATTATTATATGGTTTTCAGTATTG
GATACAGCASKGCACAAATTATATTAAAACTACAATTAAAAACTACAATTTCATGCCAAAAAAACCCTGATTTTACTCT
GATCATCCTTCAAGGCTGTTGTTCTTGATTCTAGCATTGATATTTCATGTTTATTTCATTACATTTTATACTATTTTAA
AATATTAAATATTTAAAGCATATATAAGCTATTTTCACAGTTGATTTGCATTAAGTGGAAGTTAATATGTCAATTCTAA
CTCAGAATTTCTAAGTAGAAATATACATATTATGCCTGAGGTAGACAAATACAAATATACTATATTTACTATACCATGA
CTATTTAGTATCTTTAATCCCATAAAAATTAATTACCTGACTTATTTCCACCAAAGCTCTTCTAATTAAAGTTTTGGAC
CACAGTGAAAGAAAATAAGCTTTAATTTATATGTATTAAATTTTGTATATCTTCCTTTTTCTCTCTCCAATGGAAGTCT
TATGAATGTGTAATTTAGACATGTTTGTCTAGCTCTCACATATATGAAAGGTGTTACTGTTAGCTTTTCTAAACAGAAC
ATTGTAACAACTGCCACACCTACAACCCCATTCAGCCAGAAGTGCAACTCCCCAAGCTTTGGGAATTTTCTACTAAAGG
ACTTGAAAGAGTCAATGTTTCATAGTTAAGTTGGGATTAAGGAACCATCTTGACCACAGATTTCTGAATTTTTTTAGTA
TATAATAATCATTGGCAATTATCTTGTCCAATACCTTCCATATAAAAATAAGAAAAAAATGAAATATTCCTCATGCCCTT
GGAAAATTGCTGGCTTAGTTTTCTTTTCCCTGTAATGGCTTACCATCTGGTCATTCAAACTGGGCCAGCCACTTCTCAA
GGCTGCCACACTAGCCTATTGCTCCTTCCATGATGTTTTCCCCAATGTTTGTATTTCTGGTTCCTCCATGTCATTCAGT
TCTCAGCTTGAAGAACACTTGTCAGGGAGGTCTTCTCTGGCACCCAATCTAAAGCAGCCTTCAGTCACCTACTAGCATA
TCTCTTATTTTATTTTTCAGAATAACATGCCTCACTATTTCCTTTCTGAAGTGTTTGTTTTTAGATTTATTATGTGTTA
TTGTTCATCATGGTACATTAAATACAGAGGGTAGCAGCCTTGATTGTTTTGTTCACCACAGTATCCCCAATGAGTGGAA
CATTTCCTGGCAATTAGTTGGTGCTCAATAATTATGTATTTAATAAATGCATGATGTAATCCTTGTTACTTTTCATATT
TGTATTAGTGACTAAAAACCATGAGGGGGCCTAAGAATGTACAACCCAACAAATACAGACTTTCCACCAGCCACATCAT
GGGCCATTTAAAAAAACACAAAATTAACTGATCTAATTGTCGTAAGTCTTCAGAGTTATATGCCCAGTTGTTTTTGACA
TTGCCAGACTACTCTTTGATAAACCTGTCAATACAATTAATTTGTTGATAATATGCATATCTCATCACCAAGTGCAGTC
TTACTTTCCTGCATCTGAAAGAAGAAAGACAAGAATGCTTTCTGCTTCCTCTTGACATTTTCCTTCCCGGGAAATATTT
TCCTCAAGTATTTAAGGTGAGTTACATTAAAATATWGAAAAATTAGCTTAAATCTTTTCTTATCAGAAAAATAAGCTGA
TCATATTCATTCAACAAATGATTTCTGAGCACCTACTATATATCAGGCTCTTCTGTCATTGGGATTGGTTTCTAATGGA
AGGAGCAGATAACAAACAAATAACTAGACGGCAACATTCACGTGTTATTATATCCTTACCACAGTCCTTTGATGTAGGA
ATTATCATTCAGACTCACACTGCCAGCTGCAGAGTTGGGATTTGAACATAAATTTCTATTAGTTTAAAGCCTCCTCCCT
TTGTACTTTATTGTTTGGAAAAAGAATATTCTATGAAAATTTAAATAATAATAACAAAACTGTGAGTCTTATAGGGCTT
TAAAATCATTATAATTTATACAAAAAATAAATTATCCATTTAAACAGAGAAATTATTCCTATGTTTGGTCATAGAAAC
TAAGTGCATTATACATTACCATAATACATTACTTTAAACATCTAAAAAATGAATTATAGTATAAATTAGACCTCATCAA
AAGATCATTCAGTTACATAGTTTATCAGTTATTGTCCAAAGTGTTCTCAGTAAGACAGCTCTAATTGCTTTAAAGTGTT
TAATATGGCAGACATTAGATTCTGGTAGGTGGATAAGCCAATCTTTAAGTCAACCGATGCTCCTGTAACTGCCCAGTGG
GTTCATTTTGCCTCCTGCCCAGACAGAGCCAATTTATCAAAACAAACGAATTGCAATAGAAAAAGTTTAATTCACGCAG
AGCCTGCTGAACAGGAGACCAGAGTCTTATTATTACTCAAATCAGTCTCTCTGAAAATTCAGAGACTGGGGTTTTTTAA
GGATAATTTGGTAGATAGGATGCCAGGGAGTGCTGATTGGTTCGGTGGGAGATGAAATCATAGGGAGTTGAAGCTGTCC
ACTTGAGCTGAGTTGGTTCCTGGGTGAGGGACACAAGACCAGATGAGCCAGTTTATCAATCTGGGTGGTGCCAGCTGAT
CCTTCGAGTTCAGGGTCCAAAAAATATCTCAAGCACCAATCTTAGGTTTTACAATAGTGATGTTATCCCTAGGAGCAAC
TGGGGATTTTTAGAATCTTGTGACCTCTAGATGCATGATTCCTAAATCGCAATTTCTAATCTTGTGGCAAATTTGTTAG
TCCTACAACAGCCAGTCTGGTCCCCAGGCAAGAAAAGAGTTTGTTTTGGGAAAGGGCTATTATCATCTTTGTTTCAAAG
TTAAACTATAAACTAAATTCTTCCCAAAGTTAGTTTGGCCTATGCCCAGGAATGAATAAGGACAGCTTGGAGGTTAAAA
GCAAGATGGAATCTGTTAGGTCATATCTCTTTCTCTGTCATAATTTTTTCACTGTTATAACTTTTACAAAGACAGTTTT
ACTCCTATGATAATCCTTCAGTTAGTTCACTGTCTAGTTCCTGGGAGTCTGTTTTGTGGATCCTAACCCTACCCCAAGG
ATTCTACTGCATTGTAAATTCTGACTTTACATTTAAGACATGGAGTTCTTTGGGGGCAGGGAGATAAATATCCTATTTT
AACTATCAAGGGTTAAAGTGCTTTCAAGGATCTAGTGTCTGGTGGTGATACCAGAGTCATACAATTCAAATTACAAGCA
TCTGTTTGTTGTGTTGAGAGCAGGGACTGATAAATGAGGCACTTTTTGATTGTGCAACTGGGTATAAAACAGTCAAAAT
GATGCTTATAACTTCAAGCTTTTCTCCCACTTGAATCAGCCAACAAGATTTTCATACAACATTTAGACCAGAGTAGCTG
ATGCTTCTGTTTCTTGCATTTTGTCTGGTTTGGGATCAATTTTGTAGTCATGGATGTAGTTATAGCTCTTTGGTATGTG
AACATGAGAGAGGTGTAAGCTCATAAAATAAGAAAATCTGTTTTTGTTAAAGTAGACGATGTGCAATTCAGAAACAATG
AACCATATCAACTAAATAATGGGTTAAATCAGTAGAGACTTTGTCAATCTTGTATTGATTTAATCATTTCAAAATTATT
TATTCATTGTCTATAGGTATGCTAGGAGAATAGTTGAATACAAAAAATGTTCTTACACTCAGGAACTTCACAATCAGGT
GCAAAAATGAGACAGGCATACTCACATTAAAAATTAAATGACAATTCAAGAGGCGGCACAGGCAGTCTAGGATAAACTG
CCATATGAATAATAGCAACAATAAAGTAGATGAGCTCCCAAAAAGGAAAGATCGAGGAAGGCAGCATGGAAAAATTTGA
CATTGCCTTGTGTTTGGAGTTGAACGAGTTGGAAGTGAATAAGTAGAGGTTTTTCCACGTTGCAGAGAAGTACGATGGT

Fig. 6.152

GGGGGGTATATATGGGGCATTCAAAATGCATGAAACTAGGAATTCGTTTGTCATCTTTAGGAAATTTCAGAAGTAGTTT
CTGACCATTTTATGTGGGTCCTTTATTTTCAAGTTTAGACATTGGATTTTATCCTGAGAATAATGGGGAACCATTGAA
GGTTTTCTACAGGGGACAAGGATAGCATGTTGGAATGACTAACCAGATAGAAATATGCACAATTTCTTGAAAATAGGGA
GAACGAGAAAGGAAGAAAGCAGAACAGTGGTTCTTGACTTTAATGTGCCACCTAAGGGCMAGGTGCAGTGGGTCACACC
SGTAATCCCAGCACTTTGGGAGGCCGAGGTGGGTGGATTGCTTGAGTCCAGGTGTTTGAGACAAGGCTGAGCAACATGG
TAAAACTCCATGTCTACAAAAAAATACAAAAGTGGTGGTGTGTGCCTGTAATCCCGCTGCTCGGGATGCTGAAGTGGGA
GGATCGATTGAGGCCACAACATTGAAGCTGCAGTGAGCCATGATTGCGCCAGGGCACTCCAGCCTGGGTAACAGAGCAA
GACCCCTTTGTCTCAAAAGAAAAAAAAAATCCACCTAAGGAGCTTGTTAAAATTGCCGATTCCTGAACCTTACTCCAGA
GATTCTGGTTCAGCAAGTCTGGAGAGGACGCATAATCTCCCTGTTAAGGGTTAGATTCTAAATAAGTGGTCTTCAGGCC
ACATTTTGAATAATACTAAATTAGAAGGCTGTCACAATAATCTAGGAGTGAAATGGTGAAGGTTTGTATTATAATTTTG
GAAGCAGGGATGAAAAGAAAGTGATGGTTGGTAGAGATATAGTGAAGGAAGAATTGATAAGACCTAGAAATGTTTGGGT
ATAAGAAATCAAAGGGAAGAAATAGTTTTAAATGATATTAATGTATTTATCATATTTGATATTTTTGTTAATGTAACTG
GATTTGCAAGTCACTTAACTTACTTTAAAAAGCCAGTGCAAATWAAAATAATGTACAAATTGTAAACCAAGGTTGAAAA
TATAAGATCAAATGATGGGTATGGGAATATCTGTAAATAGGAAAGAAATTCATAAAAAAATTAAGCTACCACTTTGTGTT
ATTTCCAAGTGTATTCTAATAATTAGTTTTCCCCATCATGGATTTAATTAATTCTTAGTCAAGATTTCTGGATTTCTTT
AATCATTACCTTTTGAAAGTAGATGTAGAATTCTCAATTATCTAAATCTTCCACATTTAGCTGAGAGACCAACTCTAGG
GAATATATTAGAGTATTTTCATAGTTCCATCAGACTATGAACCCCAATTCTTAGTTAAGGCACTATAGCTATGGGAATT
ATAGTCCATAGTGAATAAAATATACAATCATGGACCTTATTTTGAATAGCTTCCAGAACAAACATATGCGAACATCTTG
AGGAGGTTATTATGGCTAGGTTCTAGCTTGCATCACTAAGTCATCAAGAATGGGAGACAAAAGGTATAAGGAAAAGTTT
TCAGTAGAAATTATAATAATTGTCAGAGGAATTATTTCAGTCTCAGGTTGATGCAAATTTGGGTACAGTGGATGCTGCT
TCCACTTGTTTTCGGAAGCCGTAACCAATAATCAAAAGCAAGCAACTTTTCCAAAAGTAATTCCATCTTGTTTTTTAAA
AAAAAGTTTGAGTTTATTTAATATCTTCATTTAGACATGTGAACAAATTGTTTGCCTTTTTCATTAATGACATCTGAGT
ACTTGTGTAGATTGCCTTCATAGTTCATTTGAGGCATAATGCCTCAAATTAGGAACTGGAAATGTTTCTTTTTAAACAT
GAATATTGCCTAAAATTGCTGAAATTACCAAGTCTTTAATTTCATCAACAGAAGAAAATAGGCAAAGAAATTCAGGCAA
ATTGAAGAGTTAAAACGTTATGTATAGGTCAGGTTCAGTTCAGTGCAAATAACTGTAATATTCCTTTATGTTTTAAAGG
GATGTTTGGTTTGAGAGGGAATGCTTTCACCTTCTGAAAGGGAAGAGGGAGGTCAAATAGTGACAAAAGAATGAGGACT
TGGGGGAAGTTTCAGCTAAGAGGACAAGCAAAAGAAGGCTGAGAACAAACAGCAATTTGTGGTGGGCATGTTTGGGAGC
TGTAAAGAGAATAGCTCTTGCTTTGGAGTAAACTTCCTCAGTCAGAACTAGGTCCTTGAATTCAGACCAGCTCTCATCT
CCTTGGTCCACTCTAGGGCTGATGGAGGCTGCTGAAATCATCTTTTGCTACATTAATACTCATTTTTCGCTCAAAGATG
ACAAGGAGTATTTAAACGCAGAGAGAATGTTATTTATAAATGATGATTTGTTCGTGATAGAACTTGCCACATAGTATTT
TCTCTTTTTTAACTTTTATTTTAGGTTCAGGGGTACATGTGCAGGTTTGTTATATAGGTAAGCTAGTGTGATGGAGGTT
TGTTGTAACAGGTTATTTTATTTCATCACCCAGGTACTACGCCTAGTACCCGATAATTATTTTTTCTTTTCCTCCCCCT
CCTCCCATCTTCCACCATCAAGTAGATAGACCCTAGTGTCTATTGTTTCTTTCTTTGTGTCCACGAGTTCTCTTAATTT
AGCTCCCACTTATAAATGAGAACATTTACTAAATGGATCTTTATAAAAACAGTTTGCCGACCACTAATGAATAAGAAAA
TATTAGAATAAAAAAGCTCAATGTCACTGATCATTAGAGAAATGCAAATCAAAACCACAATGAGATACCATCTTACTCC
AGTCAGAATGGCTGTGATTAAAAAGTCAAAAAAATAACAGCTGCTGGCAAGATTTAGGAGAAAAGGGACCAGTATTCGG
TTTTCTGTTCCTGCGTTAGTTTGCTAAGGATAATGTCCTCCAACTCCATCCGTGTTCCCGCCAGTGACATTATCTCATT
CTTTTTATGGCTGTGTAGTATTCTGTGGAGTATATGTACCACATTTTCTTTACCAAATCTGTCATTGACAGGCATTTAG
GTTAATTCCATCTCTTTGCTATTGTGAACAGTGCTGCAAGGAACATTCACGTGCATGTGTTTTTATGGTAGAACAATTT
ATATTCCTTTGGGTATATACCCAGTTGTGGGTTTGCTAGGTTGAATGGTAGTTCTGTTTTTAGCTCTTTGAGAAACCAT
CACACTGCTTCCTACAATGGTTGAACTAATTTACACTCCCATCAACAGTGTATAAATGGTCCCTTTTCTCCTCCATTCT
GACTGGAATAAGATGGTATCTCATTGTGATTTTGATTTGCATTTCTCTAATGATCAGTGATATTGAGCTTTTTTATTCT
AATATTTTCTTATTCATTAGTGGTCAGCAAACTGTTTTTATAAAGATTCGTTTAGTAAATATTTTAGACTTTGTGAGAT
ATACAGTCTCTGTCATACTCAACTCTGCCACTGAAGTATGAGAGCAATCATTGACATTTACTCATGTAATTACATGGGT
TTGGCTATGTTCCAATAAAACTTTATTTACAAAAACAGATAGCGAGCTGAATTTGTCTAATAGCCACAGTTTGCCTGAC
CCTGTTTCATTGCAGTATGTGCTATTTCTATTGTGAATGAAAAGGCTAGCTTAGAAGGCTAACTACTTTTTCTGGCTTA
GGAAGCTAACTACTTTCTCTAGCATAGTTTCCTAGAGAAATAGGTTCTCGATTAAAAATAGATAGGAACCTGACCCACA
CTGTATCTGGCAAATTCTTTAACTAAAGAAATGTAAAACGCTTTGGAGGTACCTAAATAGTGGCTAAAAATTGAGTTCC
AGTGTTTTCTAATTATGAGATGAGGACACATTTTCCTCATCTGTAAATTAGGAATAACAATACCTTCTTCATAAAAAGG
CCATGGCTATCAAATGCCATCGCATAAGTGAAGTGCCCACTGCAGCAGCATCTGACATAGTAGGCCCTCCAGTAAACAT
CTGTTTTCTCCCTTCTCCATTGCCAGGAAACACATATGGAATAGAAATAAAAGTAGAAACAAAGGAGAGAAGAAGGCAG
AACTAGTTTCAGTTTTAAAATACAGAAGCTCTTTATCTCACTAAAATATTCATTGCCGGCTTAAAGGCAAAGCCCTATT
ACTAGTTCAACACAGTTCATAATTTTCAAAAGCACTACCCCTGTCATGGTACTGTGGGAGTTCTTGGTTTTTTACTCCC
CTAATTTCCTAAATTATATGTATAACATCATATATGGAATATAATAATGTATATATGCGTGTATACTTAGGTATACATG
CATTATTTATGTAACAGATATTGTGCTGAGCATTTTACATCTATTATCTCATATAATCTTTACAGTAACATTGCAAAGT
TGATTCTGTTATTTTCATCGATGAAAAAACTGACAGAGAGGTTAATGTAACCCATCTGTGGTTACACATCTAGAAAGTC
TTGGAGCTGAAACGGAAACTCAGGGCGTTCTGGCTGTAATGCCCATTCTCTTAATAACCATGATAAATGACATACTTTT
AAGAATGAATAATATTTAACTGTGATGAGACTACTGATTTGGTTTAGATTCATCATTTCTAAGTTACTTGACCAACATC
AAAGAAGAACTGGGTCAATTAGTCCAATCTGTGGTTTATAATTGGCCAATTAGTCCACATCTTTGAATCTGCACAGGGA
CCACTTGCACATAAATCTAGATCTACATTTGCCACGCTCCACAAAGCATTCTGAACAATTCACTGTGTTCAAAAATGAG

Fig. 6.153

ATTTCTATTATTTATGCATGAAGAAAATATGCTGTTTTCCATGCACTGAGCCAGGGGGAAAACTACTCAGCCTTGGTAA
TATTAGACCATGGATCTTCCATTTATTTTAAATGATAGTGTCATGCTGAGGAAAATAATGGTTCATATCCTTCTTCTCC
TTCCTCCAAATACTATGTCAAAACTACTTTGATTAAAATAAATAAAATCTTGTATCACTGTGCCAACTCTGTAAGAAGA
CAGAGCAAGCAAGCAAACACATTAAAAACTAAGGTGTTGGAGAGTCTGCCGTGACTTGTGAATTCTGTATATTTTTTCC
TTTCCTGAAGTTCTTATTTTCTTTTCTTTTACTTACCAAGTTACTTGGAAATTTAACAATTTAATAAAAATAAACAGCA
TCTTTTCCCAATATTTAAAAAAATGTATTATTCATTAAAAATTTTGCATTCACAAAAAAGTGAATAATTGGGCTCCAAT
CTGAGTTAGTTTATGAGTGTTCCCCAGGTACCTATCCTCTCTCTTTTGGAGAGAACATGTATTCCTTGAGGACAGATTA
AGAAACTAGTCTTCCCTTAATGCTGGGAGCCTCTTTGAAGTCTTATTTACTTCAGATCTTAAGGGAGAATTGTGGTACG
CTGAAAAGTATCACATTTGTTATCACTTGAGGAAACACCATTTGATCTAATGAGCTAGACTTTTTCATCTTTCAATTCA
TGACAGCTATAGCTACATTAGAAATTGCATTTTGGAGGTCTTGGATAATTATCTAAAAATATTCACAAACCCCTTGGAG
GCTAATGAATTTAAACTTGGATGGCTAATCCTAAAATGGCTTTATTCCAGCAAAGTGGGAGAGAAACTCCCCTTCTTCT
GTTTATTTAAGGTTTCTAGTTTGGGGTCCTGGTTCTAGTTTGGAGTCCTGGAGTTCCTTTCAATGTGTTTCCATAATAG
CCTGATTCAGAGGAGTCGGGGAGAAAGAAAGAAACAAAAAGAAAATGCCTTGTTTATTTTATTTACATATATACATACA
TATCTATACATATGTAAAATGCACATGGTAAAGCATAGTATTTTGCACAAAATCTTAAGTAAAGACAGACTTGGGTTTA
GATTTATAATAGGATTTAGTAATACTAATACCAATAACAGCAGCAGCAAATTCTTGAGTGCATGAAATGGATTACTTTA
TGTAATTTCTGCAAAGTCCTATCATGTATATTTTGTCACTAGTTTATTTTACAGATGAGGAAACTAAGGCTCAGCAAAG
CTGTAAAACTTGGCCAAAAAGTCATGCAATTTTTGAGGATTCTGATTTGCTCTGTCTGGTGCTTATACCCATCTTCTTA
AATAGAACAATCATGAGGAAATTGACAATGTCCACAGACATAAGACACGCTTGCAGAGAACTAGGTATTGGGACACTGC
AGAGAGGCAGGCAGGGAACACTGGCCTGAAGTATGAGCTTTGAAACTGGCAGTCTTCATTGTAATCCTGGCTTTGCCCT
TGCTGTCTGTGTGTCCTTGGATGAGTTACCATCTTCTGTGTGCTTCAGTTTCTTTATCTGTACAATCGGGATAGTAATA
AACTAATTTTTGAAAACCAGCTAAAATAATGCCTGGTTCATAGTAAACCCAATAAGTAGTAGTTGTCAATTTATTAGGT
TGGTGCAAAAGTAATTGCAGTTTTTTTTCTATTACTTTCAATCACAAAAATCGCAATTACCTTTACAACAAGCTAATAG
GTATCCTGCCTGCTCTGTCTTATCCCTTTCACCCTTTAGAGCAGCTAAACATTAGACGAGTGCCTCATCCAGAGATTTA
TTGCAATATTTTATACATCAGAACAGTTTGAAGAACCTGAGATAATATTGAGAAGATAGAGAATTTTTCTCTGTCACTC
CCCATCTTCTATTTTAAACTAGTAATTCTCCTCTCTTGCCTGCAAACCCCGCTTCCTAATCCTTAGGCAACTGTCCTGA
GTTCTTGTTAGTTATTACTAATTCCTGCTGTGATGTTCGTTGATAGCTACAATGTTAGATGATAAGGAATATTATATTT
TAAAGTCAGATATTTGAGAAATAAAATTGCATTCTCACTCCAAGAAAAGTTTCTGCATATCCAAAGGATGTGGGGGATA
GATATTTAGGAATATATGTGTGCCAGGATTGGGCAACTCGCAGCCAAAGAATGGAACAGGTTTACCTTGGATTTGAGAG
CTACACACACCACTTCACAAAAATTTTTATCTTAATTTGGTATTAACTTTATTTAACTATAAAACTTTAAAACTAAACT
TTGAGAGGAGGATGAATTTTGTTTTAAAGATGTTTGTAGTTATTTTTAGCTCAGAGTTCTATTTAGGTTCCCCAAATTT
TGTGCTACAACAGTTTTAAAAGTCTGCCCAGTTATTTAATCTGGGGAGATTACAAATACAGTGTTGACGACTGGCCTGC
AGCTCTCTCTTCTGAAATGAGATATTCAACTCCACATGGCTTACTGCCTCTTCCTATCCCACTTAGTTTCCATCTCTTC
TGCTGGTGATGATGTGAGTTCCCTACCCTGTGGGGTTACAATTGCCCTTATGGTTTTTCTTATACAATATTCAGCATTA
TAACATATGTAGGTTATAGAGCATATAATATATGAACTGCAATATTATCAATATGTTGTATCTACCTGTGGGCTCCTTC
CTTCTCTCAGTTACCATATTTTCCTTCACCACTCACTGGGTAACAACCATCTGAAATTTCATGAATTGCATAACCTTTC
CATTTTTAATACTTTTAAAAAATCATATATGTATGTATCCTCTAAAATCTTGCTATGTAAGTATGGTCCACAGATCTAT
GCATGAACATTGCCTGGGAGCTTATTAGAAATACTGAATTTCAGCATTGCCCCAGACCTACTGAACCAAAATAAGTATT
TTAACAAGAATTGCTGTTGATTTACAGGCACATTAGTTTAAGAAGCACTACACCAAAATATATTATTTTGTCTTCCTAG
GGGTTGTTTTGTTTGCTTGTTTTCTTATTTGTTTCTTGTTTTTGAGTGTTATAAGAATGACATTCTGTTTGTTGTCTTC
TGCTACTTGCTTTGTTTGCTCAACAGGGCATTTTAAGATTCATCCAGGTTGCTTTCTGTAGTTGTTCATGGCTTCCTGA
TGTAACATTTGTGCTAATAGTCCTTCCTGCTAAACACTTAGTTTGTTTCTAGCTTGTGTTATAGTGTATAATCCTGCTA
TGAACAGTCTGGTGCATGTCTCCGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT
GTGTTTGCATGTAAGACATTTTCTGTGCTGTGTACCCAGGAGTAGAATTATGAATTGTAGTGTATGTGAATGTTTACCT
TTACCAGATAATGGTAAATTGTTTTACCACCAGCAGTATATGAGTTTTCATTGATCTACATCTTTTCAAATACATGGTG
TCATCAGGCTTTTTACTTTTTGCTGACCTAGTGGACATAAAATGTCCTCTCACTGTGGTCTTTATTTGCATCTCCCTGA
TAACTAATGAGATTGGTCAATTTTTTCATCTATTTAATTACCATTCTGTTTTCCTTTTCTGTGACGTGCCTTTTCATGT
ATTTTGACTATTTTTCCATTTTTCTCTCATTGATTCATAGGAGTACTTATTTTGAAATAGTCCTTTGAGAGTTACATGG
GTTGCTATGTTTTCTTCCAATTTATGACTTATCCTCTCACTTTCTTGATCACTCTTGAATAGAAGTTCCAAATGTTAGT
ATAGTTTATCAGTCTTTCGCTGTAACTGCTTTTGTATCTTTTAAAAAAATCCTTCCTTGCATGAATACTATAATACTAT
TCTAATAATTTCAGTGGATGGGTGGTTTAATACATAATTAGAGCTCTAGGATGATATTAACTGAAATATTAAACCAGTC
TTCAACTGGTATTCTTAAATAACTCATCAATTGGCATTTTACTTTCAAAAGGCCTATGTTTAATTTCTCCCATTTGTCA
TCCAGGCAAGATCACAAGTTTTGGACTTAGCTTGACGAGGCTCAAATCCAGGCTTTGAAACAGCAAGTATCTGACCTTA
GTTAAGTAATTGTCCCCATAAGCTTCAGTTTCCTCATATGTAAAATAGTTGCTGCTACAATTCTTCTATTTTAAGAAAT
CCGTTAATTACAATAGTTGAGTCAATTTAATGGGAGCTTTTTAAAATGAGAACTATTAGTTTAAATTTACATTTTCTTA
AGTGATTTAAAAATGCATACATTTTGCCTTACCAATGCCTACCTACCACATTACTTTTCATCATCTCAAACTATAAGAT
TAAATCTTTTCTACATTAAGAATCTAAAGATCTTTATACAGTTTTAGCCTTTGGTAGTTGGGCCTAATTTCAAAGTGAC
AAGCTCTTTCATGATCTCTTTTACATTTTTGAGATCAAGAGTGACATTTCAAGGCATATTGATTCATTTTTATAAAAAA
TATAATTATCAACCACAAAAAGTTAAACATCTCTWAAAAGTTAGCTAAGAGCTTGTGACAGATGGACATTTAGCAACTG
AGTAATCATTCTTCAGGTCTCACAAATCTGTCACTTTGAAAGTTCTATGACATCTTCTGAGGGATTTGGTAATATCTAC
TCATTTTAACTGTATTGCTGCTGTGTGACTGGCCATGATTTTATAGACATTTCAATGCTAAAGCAATATGCAGCTTCCA

Fig. 6.154

ATATCATTCTTATGAATATCTTGTTGCTTTTCAATAAGATATGGAAGTGCAGTTTTTCTCCCAGGAAGAAATATTTTTT
CACTTATAGTAAATCTTTGTCTCCTACCCATGTTTTAATTTTCTTCCTATATACAAAATAACTTAGCTCTTCAATGAGG
TATTAATAATTATAGTATGAACTTTTGAAGACATTTTAAGTAAATAGTGTATATATATATATGTGTGTGTGTGTGTG
TGTGTGTGTGTATATATATATATTTTTTTTTTTTTGATATGGAGTCTTGCTCTATTGCCTGGGTTAGAGTGCAGTGGTGT
GATCATGGCTCACTGCAACATTCACCTCCCGGGTTCAAGCAATTTTCCTGCCTCAGGCTCCAGAGAGGCTGGGGTTACA
GTTGTGCATTACCACACCTGGCTAGTTTTTGTATTTTTAGTAGAGACAGGGTTTCACCATGTTGGCCAGGCTGGTCTTG
AACTCCTGACATCAAGTGATCCGCCCACCTTGGCCTACAAAGTGCTGGGATTACAGGCATGAGCCACTGCACCCAGCCA
AATAGTCTTAATTTAGTTAAGTGCAAAGTTCATCAATCTGTAGCTATATGAATGCAAGTCAGAAATCCAAAGTCCTTAC
CATGACCAGCATGGACTTCCTTGATCTGTCATTTCCAAACAGCTTTCACCTGACTTCATCCCAGGCCACTGGTTGATTT
ACTATTCCTCAGCCATAACAAGCTGGCTGCCATGTCTTTGCACTTGATTTTCCCACAGCCTGGAGTGCTGGCTTACTCC
CTTGCTTCCTTCAGGCCACTCTACCATTACTCTTTTGGATAAGCCTAACTTGCCAGCCAATGCAAAATAGCACTCCCAA
ACATCACACTCCAACTTCTTAATTTGCTTCAGTTTGCTTCATAACACTGAGCTCCTGTATCTGATATTATTATTTATAT
TTCTCTAATTAAAAGAAATGGAATAAACACTTAAGCATCTATATATATATATTTACCACTTAAGCATATATATATATAT
ATTTACCACTTAAGCATGCATATGTATATATAAATACATATATATATATGTGCTTAGGTGTTTATTCTGTCTTTTTTAA
TTAGAAGAGGAGGGCCAGAACTTTTCTTTATTGACTTTTTTATCTCCAGAACTTAGGGTTGGCACATATTAAGTGCTCA
ATAAATATTGGTTAAATGGCTGAATTAATGTTGAGACAATCAGGTGAACAGGTGTTTTCTATGTAGAGTTAAGAGTCCA
ACGGGCTATTCTCAACATTGGCAGAGGACTAGCACAGTTCTTTAGTCCCCACTGAAAGACTCATCCTGATCATTATAAT
GTTAAAATGTGATGAAAAAAGCATACTGTTGCAAGAATTAAATAAAATAATGTATGGAAAATGTTTGCCAGAATCAGAA
TATCAAATGTTAATTGTTCAATAAATGCAATAAAATTAATTCCATCTGAATCAATCCTTACCCCTTCCTTTCCTGTAAC
AGTGGAAATGTTGGCTTTTTTCTAGTTTGGGCAAATGCTTCCATCTGTGCCCTGCAGTTCAACGCCCCTCAACCCCATC
TTCTCAGGGACAACATATTGTTATTTTCCTTCCTTCTGTCATATCTGTTATTTCTCCCTCTCTTTGCATCCTACTCATC
AACTTTAAAACCTGCTCCACTCAGAAGGGGGTCCTTTTGATAATGTATACAAAGTCACTACATTGCCTTTAGGGGACAC
TGAATAAGAAGTAATTCTTTATCAGGCTTCTGCTTATTGCTCAGCTGTCCTTGCAGGTTTATAGACTTATTTGCCATTT
TCTGAATGTCCAATGCCCCACAATATCTCTCATCTCTAAGTTATTGTCTGCGCCAGTCTCTGCCCAAAATGCCTTTACT
CCTTCATCTCCCCAAGACGTACACACATTCATGGTCACACATATGTATTCACACATACTGAAAATAGCTAATTTCAATG
TGTACTTGAGGTCTTGGCCTCAGATTAGATGCCACTCTCCCTTTGGTGAGGACTCACTGAGCTGTAAGGGTTGAATGTT
CTTCCAGCAGACACTACATATCCGCATCAGTATATCTCTTCCCCCCATCTTCCCAAATTATAGTTGCTTATTTATTTAT
TTCCTCTGCAAGACACAAAACTCCTTGAGGATAGTAATTTTTTGTGCATGTTTGTCAATGCAGTATCACAGTCGTCCTG
AGAATTAGCACACAGTAGATAAGCAATATTTTTACCTTGAGCTGACAAGTGGAATGGTATCATTAGAAAGTTACAAAAT
TGATTTTGTGATACTGAGCCTCCAACTAGTTGGAAATTAGTGTGCTGCTAAATTTGCATTAGTGTGCTAGTCAAAGACA
AGGATATTCAAGTACAGCATTTCTTAGTTTCATATTAATTGCATATTTCTGTTTATTTCATATTAGACAAAAATTACTG
AAAAGCAGCCTAATATACTGCGTTGGAAACAATATGATAGAGACTTTAATACTAGTACTTGTACTGRCAATACTGACAA
TATTATCTTGTATATGTATAGGTTTTTACAAATTTAAAAGCCTTTCATATATCTCAAGGAAATATCCTAAGAACCTGTT
TCTACTCAACATTAAAGACCTAAGTGAAATCTGAGACTTTCAATGCCTTTGGATATGTAATTAGACAGGAGTTTAGCCT
TTTGTAACACATATGATGATGAAAATTTCCGATTTTAAGCTGACTGTTGGGCATCAAGATGACCATCTTTACAAATGAA
GTAGCACTCATGCGCTCAAGTATACATAGAATGTATGCAAAGTGAAAGTCTCCTTTAAATCTTCCTCCCATTGACTTGA
GCAACGAGAACACGTGGACACAGGGAGGGGAACATTACACACTGGGGCCTGTCGGGGGGTGGGAKGCTGGAGGAGGGAT
AGCATTAGGAGAAATACCTAATGTAAATGACAAGTTAATGGGTGCAGCAAACCAACATGGTACATGTATACCTATGTAA
CAAACCTGCACATTGAGCACATGGACCCCATAACTTAAAGTATAATAAAAAAAGTAAAAAAAAAAATCCTCCTCCCATT
GCCAAGATAGAAATGGACCCTTAGTTACTGCCACTTGCCATCTCACTCTGTGTTCTGGATAGAAATGGTGCTTGCTCTC
TGCTAGCTGTTAATTGACATCACTTCTGCCAGAACTCTCCATCATTATTGACAAGAATGTTCTCCCTTGTTAATTGCCC
AGCAGCACATTGAGTGATTGATTGTATCTTTTGGACAGATTTGAAATGCATTTGCAGAAAAGGGTGGGGGTGGTAATGA
CATAATGCATGGTAATGACACCAACTAACTGCTTATTTAAGTTTGTTCAGGAAAAAGATACTGATCATTTACCTGATTT
TTACTTTTTATATAGATGTGCTAATGGTAAGTAGTGATAGCTTTCCAGGATGTCCCACATTAACCCAATGCTTCACAAA
AATCTCTCTCAGACTGTGCCCATAAAACTCCAAAATCTATGGTCAACTAGTGGGAAAAAGAATGGATAATTTATTTAAC
ATATAAGCAGGGAAAACCAATGGGTAGATGGAATATTTTACATTTTTGTTGTTTTAATTAAAAGTAGGAAATACCTAGA
TTAATGAGAAGAGTTTTTAAATGGAAGGCTGGGAGTGCTCAATATTCAGCAGTATAAGATTTTCTTTTAGCATAGAGGC
AACTAGAGTAATACATAAAGTGCATATTTTCATGAGAACTTTGCTTATAAGCTGGACTTCCCTAGAAGTATTTGAGACA
CAAGGGCGAGTCAACTAATAGTATCTACAGTGTTTTTGCAACCATTTAATGAGAGAGTAAGTCTGGATCAGTAGTTGCT
GATGTATGAAATCACATGAAGAGTTTTTTAAAATGCCGATGCCTTGATCCTCCCCTAGAAATACTGATTTTATTTGTCT
AGGCAGGGTAGTGATGATCAAACTTTACACTGAAGCAGCATCTTCTCACAAATTTGGTAAAAGTATAAAGCCTCAAGCC
CTATCCTGCTTCATGGAGCCTGGGTCTTTGTGTGCTGGATTAGCTCTCCTGGTGATTCTGATAACATCAAAGTTTGGAA
TCACTGCTCTAGGTTCAACATCAGACATTTTTTTTCAAGCTCCCCCAGGTGATATTCCCTAGGTACAGCCAAGACTGGG
AACTGCTGATTAACATGATATTTAGGATACTTCCCAGCCTGGCAGGAATAATAAAAATTGCTACCTTTATTAAACATTC
ATTGCATATAAGGCATTGTGCTAAGTATTATTTCATTAAATAATTGCAAAATTCTGTGAAGTAGGTAATATTAGTACTA
CTTTGCATATGGGAGACAGGGATGGTAAATAATTTAGCTAAAGTAACATGGGTAGGAAGTGGTAGATTGGAACTCAAGC
TGTAACCTCAAAGATCACACAAGAAACTATTACTATCAATAACATTTTGGAATTATAAGTTAAATTAAAAACTCTACAA
GTTGGAAACATATTAAATGATTTTCTTACATTTTAAAATGTTCCTGACTTGCAATTACATAGTAAAAACAAAACAAAGA
ATTTTTAAAAATCAGTGGGAAATATATAAAAGATAAAGTTTTCATGAGTAAAAAGGAAGGAGCAAATTGGTGGTGAAAA
TCAGGTTGGATTTGAATTATTCCAATTTAATCTGGAAAAAAATTATAAGTCACTTGTACTGTTAGTRTATGAGAAATTA

Fig. 6.155

GAATAAGAGTTTCGGATAGAGGTATTTTGCCACAGTTATATTGAGGCGAAAGGTGGCAAGCATTTCAGGGGAAAGAAGA
AATTTGTGTACTTCTTTAAAATGGTTTTGGATGTTAATAATGCAATGAATTAAAAGAAAAAGGCAGTCTATACTGCAGA
ACACTTCCATTTCTCTCCTTTTGTGTTTGGGAAAATACTGGCTTAGTGCCCTCCTAGGCATGGTAAATACTTTGACCAC
TGCCACCAGTCACACTTGTGTCTGCAAAAGGGGCAAAAAGAGTGCCTTTGTAAAGTATGGTTTAATCCTACACAGTGGA
GAGTGGTGCTTAGGAGATTGCCTTGTTTCTCTTAAGACACAACCTTTCTCAGATTTTGTGTATAGTCCACATATGAGCA
GAGGGCTCATATTAAACTGATGGAGGAAAGGTATATTTCCAACCATAAATAAATAAATAGCATGAAGAGATGATGAAGG
CCTTCTCCTGCCACTTGCACATTTCGTGGACTGTTCTTGCTGATAAACAAAGTGAGCACTTATTTCATTGGCATTATT
TTCCCAGTGGCATCTAGACTGTGTGGAGAGTGTTGAATTTTCAGCAGTCTAGAGAGTTTGAGACATGGTTCCTGATTCT
GGTACTCTAGCATCCATTACATGATATGCTTGAAATGTACATATGAAAATATGTTAAGACTGAGTGTGTGGGAAGAATA
GAATAATTACACAGCCAACAAGTTGTTGTGAGTCCTAAATATATTATCGTTCAAATAATGGATGGTACGTGGTAACTTC
CACAAAGAAAAATTCTAGAATTATTTTAACAGTAAGCAAATTGCATTTCATCTTTAAGTAATATGGTCAAATAAAAAAG
GTACAGGGAAAAAAGTGTCTATATATTGCCCTGAAATCCTCTTGGCTTCTTTAAAAAACATTTGACACTGCAGGAAAAT
GCTAATTAAAGGAAGACAAAAGTTGAATTTGGATTCTAGTGCCTCATAGGACTCTAATTTCTGTGAATATTGATACAAC
ATGTTTTTAAAACACTTTAGTAATAGAGCTGTGTTCTGCTGGAAGTGGCAGAAAGGCAAATTGCAGGCAGGCACTGAAG
ATAGAGACTACCGAAGATAATCAGAGGTTTGTAATTGAAAAGGTGCCTTAACCTTAACTCTGGCCAGCGGGCTCAGCCA
TGGCTCTGCAACTAAGGACGACTCGCCTTGATTTCCAGCGAGGACCACTCCCGAGGCCAAGTTGGAGGAAGATCTTCAA
GAGGAAACATTGGGCATTCTCCCTGCTGTGGGAAAGAGCCACACAATGTTTTATCCTATGTCAGGGAAAGAGACTGAAT
TAATCTTACTATTGGATCTTCACCCAGATCCAATTTTTCAGCGACGCGCATAGACAATATTCCAGGCAACTTTGCCTGG
TCACATTCCTTATCTTTGGAAGCACCAGCATGGGGCTCATCGTCAACAAGCTCTGAGAACCAGCCAGGAATCGCCAAAC
TCCATTTCTCTAAGAGCACTGAGGCAAGCGGAGGTGAAGAGGAAGGCTCCGGGGCAGTGGGGAGCAGTGTGGAGGAGGG
AGGCGCGGGCACGGCGAGGGGAAGGATCAAGAGGACAGGTCTGACTCCTGACTGGCTGGAGTGGTTTTGGTGAAAGTCA
CAGCTCGGGCGTGCCAGCCTGGAGCTGTCCAACTTTTCAGCAGCTCCGGGATCAGGGTTCCGGTGCCCTGGAGGCGGCT
ACCACTGCCGCCGCCGCCGTTGCTGCTGCTTCTGCAGCCCGAGTTGCTGACAATCCCTGCTCTCGCCGCCGGCGCCCAA
AGGAAGGGAAGAAGAAAGGGAGGAAGAAGGACCAACCTCTGGCGAAACCGGGCACCGCGCACCCTAGTCTTGGTGACTT
GGGGAGCCCGGGAGCGTGTCTCTGCCATAGCCTCGGTGGAAGGAGCCCTGCCGCGTTCTGTGACCCCTCCCGCTGGCAG
GGCCCCCTCTCGGTAGCCCTGAGGCTCTGGCGCCTTCAAGTGAGAAGCTAAGCACCAGCCTCTGCTGGGCTGCAGAAGC
GGCGGCGGCGGCAGCAGCAGCAGCAGCATCAGGAAGGCGCTCGGGCCAGCGCGGTGAACCCGGGCTGGGCAGCAGGTCG
CGGAGCCGCGAGCCAGGATGGAGGCAGAGGGCAGCAGCGCGCCGGCCCGGGCGGGCAGCGGAGAGGGCAGCGACAGCGC
CGGCGGGGCCACGCTCAAAGCCCCCAAGCATCTCTGGAGGCACGAGCAGCACCACCAGTACCCGCTCCGGCAGCCCCAG
TTCCGCCTCCTGCATCCCCATCACCACCTGCCCCCGCCGCCGCCACCCTCGCCCCAGCCCCAGCCCCAGTGTCCGCTAC
AGCCGCCGCCGCCGCCCCCCCTGCCGCCGCCCCCGCCGCCGCCCGGGGCTGCCCGCGGCCGCTACGCCTCGAGCGGGGC
CACCGGCCGCGTCCGGCATCGCGGCTACTCGGACACCGAGCGCTACCTGTACTGTCGCGCCATGGACCGCACCTCCTAC
GCGGTGGAGACCGGCCACCGGCCCGGCCTGAAGAAATCCAGGATGTCCTGGCCCTCCTCGTTCCAGGGACTCAGGCGGT
GAGTGGAGAGCGCCCCCTCCCCCATTCAGGCAAAGGGTCACCTCCCCTTTTCTCAAATACTCCATCTAAGTCGGCTTAT
CACCACCAATTCTAGACCCAGGGTAAAATGCTAGTCTGGAAATTGGGGGAGGACAAACAGGGGTGTGCCTATCCTTTAT
TGAGAGTATGCTATTCAGGTGTGTGTAAGAGACCCCCCAAAAGTACTGCATAAATGTTAACTGGGGCCGTGTGTGTGTG
TGTGTGTGTGTGTGTGTGTGTGTGTGGTGCGCGCGCTTCCCAGTTATCTGTGCCACGCACCAGCCCTCTCCCCACCCAC
TTCCATACCACCCTGGCTAGTGAGACTAAACAGGCAAAATCAGTTTGCTCTGGGTGGAGAAGAAGAGAAGGTGAAGGTT
TTGCGGGATTTGACCAGCGAAAGCACCCAGCATCTGTCCACTCACCCTATTGGGAAGAGGGTCGGTGGGGCTGCTCTGA
CTGGGGAGGAGGGGGGAGTGAGAAAGCCTGGTCCCAGGATTGCAGCTAAAAGCCTAAGAACAACTCGCATTTCTCTTCG
TCAGGTGGAGAAGTAAATTGAATAGCAAAAGGGGAGAACACGTGGGTGACTTGGAGAGTTTGGAGCAAAATGTTCAGCA
ATCCTTGAGAGAGACAAGGGGGTGAGGGAGGGAGAAGGAGCGAGGACGCTGTGGGAGTTACACTGTGTCGGTGTGTGCG
AGCTTGTGTGTAGGGAGACCGTGTGTGTATCAGTCGTCCCTGCAAAATCCCAGGAAGAAAGCGCCTTGTTTTAGCAGCA
GGCAAGACGTAGAGATTTGATTATAGTGATTTCGCCTTAACGTAAGTGCTCCGGAAGACAGGGCAGGGAAGCCGCCTAT
CAACCGGGAGTTTTAGTAGAAGTTGACCGCTGCTTCTCCAAGGAAATGAGTAAAGGACCAATTACAGCCATTCTGAGGA
GTCAGCTCCAGATTCTTAACTCAGGCGTGGAGGTGGATGTGGGGCCCACGTTTGGTCCCTTTCCTGATAACCCAGGGAC
AGCTCCTTTCTTCCCTGTCCCAGGCCTTCCACGCCGTGAATCCCCTCCCCCACACAGGCACAGGAAAAAGATTTCAGGA
GCTGCTGATCCTTGGCACATCTAATAGTAAAGTAGAGGGGTCGTCATCTAACCTTAGATGTGGACAGGCATCGATGTAC
TGCACCTCCAAGCCACAAGTCTGAACAATGGGCAGTTATAAATTGTAAATCAGGTCTGGGTGTGGAAACAGGAAAATCT
AGGGCTGGGATTGTTTGTCCAACTCTGATTGACAGTAGGTTGGACTGATCAGAAAATCATAATGGTGTTCAAATGTGTG
TTTGAGTTTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGAGCATGTCTCTCTGTTGTATACACTATGTACAAGGGAATCCA
GCCAAACTATCATAACCCTGATGTGTACACATCATTTCAGCTTGCATATATGCTCTTAGCCCTTTGCCTGGCTCACACC
CTTAGGTACCTTGTTGGAGATGTTCTTGTACCTGTTGGATGGGAAGAATAAGAATTGTAATTAATAACCTCAATTCAGA
TCAAAGACTGCAGACTTTCATAAATTAATATAAAAGTTTCATTTTTCAGCCAAGACTGCTAAGACCCTTTGTTTGAAGA
GGTGGATGTCCTTCTCTCTCCCCTTTGGTTGAGCACGACACTATGTAGGACCCCAATGATAGAATGAAGGCAAGCCTGA
TACTTTGTATATTTGACCTATTAATAGAAAAATACCGTGTGATGATGAGCCCTTAATAAACATTAAATAAGAACAAGAG
TTCTAGCTTGATCTGTGGGCTGATTGATTTTGTAGAGTTTCTTAATTGACTTCATTTTTTAATAAAATAGAATATGCCT
GAGAGAGTGGAAGAAAGAAAAAATAAGCTAATTGGAATAGAGGTATTGCATCATTGATTTGAATTTATTTTTTGCTATGC
TTTCTACATTGATTAATTGTTCTATTTGAAATTTTTAGTTGAATGGTTCACAGGCAAACTAAGATGTATAATATTTATA
TGTAGCTGCCACTGTGGCTCACCTGATATATCATTGTCATTCTATTTAAGGATCCTTAGACTTAAAATTCTTTACAATA

Fig. 6.156

CTTGCATATTCCCCACATGCTCACACATTGCATGTCATGTTTTTCCTTAATAGAGTTGCTTTTGCAAATAAATACATCT
TTAAGGAGGACATGGATATTAGTTTCATTCTTTAAAGAGAACAGCAACAATACTTTTTATTTTAAAGAGAACAGCAAC
AATGCTTTTAAATTATCAAAGAAATTTTACATTTATCAACTTATTTGAATCCTACAACAACACTGAGATGAGATGGTAT
TATCTCTATTTGATAGACAAGAATGCTGAGCCCCAGAAGATGCGAGCAATTTGTTCAGTATCACATAGACTGTGAGTGC
TAGAGCTAAGACTGAAACCCAAGTCTCCTGCCTCATCAAAGGTGGTGAGCCCACCTTAAATAAATGTGTGCAGAACCTG
GGCCTGTTGACAGCATCAAGAAATACATGAAACCAACGTGAAGTTTATATCGACTGATACTACAGGACATAAAGCCTGA
ATGAACTAAAAATGAGATATGGTTTAAATCCATTTTTAACAAAATGACATATATCACAAGCTTCTAGAAGTAATTAGAG
ATTTTAACTTTAGAAACTCTGGGCAGTATAAACTGGTGTTAATGATCACAACAGAGGCAAATCAGTGTATTTGTTGACT
TTGTAAAATGCATATAAATACTTATGAAAGAGTGTTCAGATAAATTAAAGCTAGTGAGAACATCTAACGTCTTTTTCAA
TAATTTTCTAAAAGCAAACAAGAAAAGGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTACGTGCGCACCACCATCT
TACCATCATCCAAATGGGGGGTTTAAATAGTCTATCAAGTTAATGTCTCTGAAAAAGCCTCATGGGTGGATGGATGAAT
GATTCCCTATGGATTATCAAGAAAGGTATATCTTTTATAAAGCTATTTCTAGCATGCACTGTAGCATTTCCAGATATTA
TCTTGGCTGAAATTTTGAGAATTTGTAACAGTTTGTGAAGCAATGGAAAGAGGAATCTTGTTTAATGAAAAAATGTAT
ATAAGCAGTAAGGAGACAACCCTTAGATATTTTGTGGTCAATTCTTTTAAGTCCATGGGAAATTTGGATATGTTAAATA
AATTTTTTATATAAAGTGTGTCTGTCAAACAAGGTAGATTCATGTCTTAATCTCAACATGCAAGAAATTTCAAACAATA
AAATTACCAGAGAAATGAGTCTCTAAGTTACCAAGAGAACAAAATGAAATATGAAAAATGTTTAAAACACTCTTTAAAA
ATGTACATATCAGATTAATCATTTCAACCAATAGTCTTCAAAATGTGACAACTATTTAACTGAACTGATAAATAATTTT
ATTGTTTCTTTGACTTTACACAACAAAATATTATTTTCAATAATATAATACACTAAGGTTGAAAATACAAGCAGCATGG
ATGATTCCTTGATATTATAAAATATTCTGGATTATAGTGATACAAATATCCAGAAGGGGACATTTGATTTAGATACTTT
GTTTGATTCATTTATTTTTATCTATTTATATTTATTGTTTTTTTAGAGACTGGGTCTCGCTCTGTCACCCAGGTTGGAG
TACAGTGGCACAATCATAGCTCACTGTAGCCTTGAACACCTGTGCTCAAGTGATCCTCCTGCCTCAGACTCCCAAAGTG
CTGGGATTACTGTCATGAACCACCATGCCTGACTCAATTTAGGTAGAAGGAAAAGAGCTAAAACCTATAATCACACAAA
ATATAAATTCTGCGCATATTATATTTACTTGACATTAGCTTTTTTTTTTTTTTTTTTTTTTAGACAGAGTCTCGCTCTG
TCACCCAGGCTGGAGTGTGCAGTGGCACAATCTTGGCTCACTGCAAACTCCACCTCCCAGGTTCAAGGGATTCTCCTGC
CTTGGCCTCCCAAGTAGCTGGGACTACGGGCACGAGCCGCCACGCCTGACTAATTTTTTGTATTTTTAGTAGAGATGGA
GCTTCACCATGTTGGCCAAGCTGGTCTCAAACTCCTGGCCTCAAGTTATCCACCCGCCTCGGCCTCCCAAAGTGCTGGG
ATACAGACGTAAGCCACCGTGCTTGGCAACATTAGTTTTTAAATATGTTAACATCATATATTAAATAAAGAAAACATA
TTGTAATATTTAAATAATAAAAGAAATTAGGTTTTCATTTTTCTATGCTAGGTTATAAAAGCTATTTCTTTATTGTTTT
ATTGATTTTTCAGGTTATTAGTGTAATTTTTTCTTCATTAAAGGATGTAACGGTAATCTAGGTTCATGATGTAAAATTT
AGATTTCACATTACCAAAATAATTAATTGAAAAATTGGCCGTTCAGATTGTCTACATCAGTGAATTTGAATTTAGGAAA
CAGTATCTTTAAAAAAAAGCATATTGGAAAACTGACATAAGGTTGACATCTTTAAATTTTAATATGTAAGGACACTAAG
GATATTTAAATAGCAAAAAATGCAAGGAAAATGTATATTTTTTACATTTCCTACATATTGTCAACACAGTAACACAGTA
TTAGACTTTTTAATTTTTTCAAAATTAGTTTGAACCTTTTATTCTTGATTTGCCTTCAATAGAATATTGTCTTGGTAAC
TTCATTTAATACTTTATCAGCTAGTGTGTTCTAAGCCTTTGATTAATCAGAAAAACATAATGAATCCATCACCTTTTTA
CATTTTGATTCTAAAATGATGTACCTTCTGTGTTTCATGGAAATGGGAGGTGGTGGGCAGAGGAGGTAGAAGGGAAAGG
ATAGGAACAAATCCCCAAGCAGGGAATGTTCCTAAGTCCTTGTCTTATTCTAATTGGATCATCTGGGTTCAGTTGCCCA
CATGTGGAGCAGTAGCATGAAAATAGGTAATTGACCACATCAACAAGACATATTTCTCTAAGATTATGGAATGTCGAGA
AGAGAAGGGACTGAGGCTTAAACTAACCTAGTCCACCACTGTCCATCTTTTACATTTGAAGAAACATGTGTCATGAGGG
GTTAAATTACTTAACACAACTAGTTTACTGCCCAAACTATAACTACAAACTATATCCTCCATATCTGCTGACAATTACT
TTACATTTTACACATTGTGGCCATCTTTTAACCATCAGTAGCCCCAACTTCCAGGTTATAGCCTTGAACCAAAAGTTTG
GAAATTACATTTAAAAAACATTTGTGAATAAGTGGAATATTCAAATATTGGCACAAGAGAGATGACTTCAGAAAACAAA
CATTCTTTCACTTTCAATTTGGATACATTTACACACACACACACACACAAACACACACACACACACACTGATGGCTTGC
TCACTGATTTCTATCTCTAAACTTTAATGTGGGTTTGGAGGCATGTCTTGGGAAGAGTTCTTAAAGATCAAATAGAATA
ATAATCTAAAAAGACTTAGTTCTGTTTATGATTTTGCTAATTATTTAAATGTCTGAAGTCTATCATGGACAAACTTATG
TCCCTCTCACAGCTTATTATCCATCTACAGGTTTAAAAATATGCAATATGTGAGTCTATAACTTGAATGCTGCTAGTAC
TGGCTCATAACAGCAACGTTGCTAAGGGATTACACCAAATAGCACTGTATTATATTTCAAAAGATGTGGCTATTTTTAT
CCTGAGGAACATTTTATCTACGTTTAAAAATAAGAAAACTGATTTTTCCCGAAGAATAAGCCACTTTACCTTATTGTTT
AAAACTTATCAGCTAAATTGGTTGGACCCTATATTCACACATACCACCATTGCCCCAAACCTCACCATACCACTTTGGA
GATTGAGAACTCTATAAAATTTGCTTTGTCATCTAAATGAGCATTTATAATTCTTGCTCCGTCTCAACGTGGGGCATCA
CATCCATCCAGTTGTCTCTGGTCTGTGGCATTCTTAGACTCTTCCTCTCCCCTAACTTTGGATCTCAAAGACCACCAAG
ATCTTTTGAATCGTCCTCAGAAATAACTCTTGTGTTTTTTCCTTGCCACTTCCCTAGTTCCAGCACTTATCCTCTATTC
ACTAAACTATCGCAATAGCCTCTAAGTGATCTCTAGCTCCAACCTCTCCTCATTCCTGTTGTTCCTTTTTTTTTTTTCAC
CCCAGGCTACCAATTTCACCACCATCTTCTAAATCTTAAGGTAATTTCTCTTTGCCTTCAAGATAAAGTCTAAATTTCT
TAGTTTGACTCTTCAGAATGTTGGCCCAGTCGGTCTTTCTTGCAGAAAGTCTAACTTTTGTCCCCTTTTGTAAACCCCA
TGAAATAATCACACTTAAATTCTGGCCGTGGTCTGAGTTCTCTGTGCCTTTTCACACCTCTCTTTCTTGCTGAGGCTGC
TTCTTCCTTCTAGATTGCTTTCCCTATGCTCTGCAACACCCCTTCCTTACCTGTTCAGAAAACTCATGAATATCTTTTC
AAACTCAGTTCATGTTACCCTCTTGCGGATATTCCTACACAAAGAAGGAATATTTTTCTTTTCTTTATTTTTTTATTTT
TTTATTTTTATTTTTTATTTTTATTTATCGTCCGAGCTGGAGTGGAATGGCGCGATCTCGGCTCACTGCAAGCTCCGCC
TACCGGGTTCAAGCGATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGACTACAGGCGCCTGCCACCATGTCCGGCTAAT
TTTTCGTATTTTTAGTAGAGACGGGGTTTCACTGTGTTGGCCAGGCTGGTCTGAAACGCTTGACCTCGTCATCCATCTG

Fig. 6.157

CCTCGATCTCCCAAAGTGGGAATATTTTTCTTTTCTGGGCTTTCCCATAGCTTTCGTATATTATTTGTACTCTAGCAGT
TATCAATTGCAGTTTAATTATTTGTTTTATGTGTTTCCCCCATTAGGTATATTAGGACCTTG CAGTGAATGGTTTTA
TATAGATTTTTAATAAGTGGTGAGCTTTTAAATGTGGAAATAATAATGAAACCTTGTCTTTTTAGTTTGTGCTCTCTCA
GACAGGATATATTTGATTTTCTTAATAATCTCTTTGAAACACACAGAGTTAGTGATTATTTTACCCATTTTATAGATGA
TGGAAGGGAATATTGAATCTCAGAAAAATAGACACATATTCATGTTCAAAGATAGAACTTGGACTTGAGCCAAAAAGGT
CTAGTGATCTTTTTTATTGTAATGTAATGAAACAAGAGATACTGTGAGTATAGGTTGGTATGAGGAGAAGCAGCCTATA
ATTTGAGTTAAGATTATGAAGACAGAGTGAAATTATAATATTATGAAGAGAAATAACAGTTTTGATCTAACTTATGAAA
AAAAAAACAACATGTAAGAGTGAAAATAACTCTGATGGGATAAAGCCCCCTTTGTAAATTTAGAGAAGTGCCTCTACAG
AGTAAATTCTTAACCTTGGGTTATGTGGCTCTACAAGATTCATTACATTTGGAGGTAGGCACACATTTCTTAGAGAATG
TTTATCCAATTCTCAATGAGTCTTTTATCCACAAAATTTAAGGCACTGTGTTCTAAAGCTAAGTTATTGACTGCTTCAC
TAAGGGAAAAATTATGAGAACATAGTATACTAATGGAGTAAGATTATCGTTGGGGTGGCTGAAAGTAAGCAGTTTGAAA
TGGGATTTTAGAAAAATGCAACACTTCAGACAGATAAGGTCAGAGGCTTATTTAAAAATGACAATCCCCAGTGGGATTT
TAGGGGATTACTTGACTTAAAATTTAATTTAAATATAAGGATAGTAAAGAACATTTTGAAAAAATAAAAAGACTGTTTT
TCCTTATAAGATAGCAGAACATATCATATAGGCTATTAATTCAAACAGCATGATAATAATTTAGAAATAAACCAATTAT
TCAACCAACTGGATAAATGGTCAAGAATAAGGCCCATGCATATATTGAAAATTTAGGGTTTAGTAAAGGTAGCAGTCCA
AATCAGTGAGAAAAGGATAAATTATTTAATATAGGATAAATTGTTTAATGGTTTATGGAAATAAAAAATGATCATTACT
TCATTCATACTATAATAAAGAGCACTGGATAAAAAAGATTAAAAACTCAAGAGAAAAACAGATAAAGGCCATGAACAGA
AAATTCAAAAAGGAAGAAAAATGTATGACAAATATACATTTGAAAAGTTTTTCTACCTGACAAACAGACAAAGAAATAA
AAACTGAAACAATTTTTCATCTATCATTTTGGAAAAAGATGAAAAATTTAAAAGAATTTGAGATGGTATACAGACATAG
CCACTTTCTTATGTACATTTTCAGTGAACAATATATCAGGAAATCAGGAAGTATAAATCAGGAAAACATTGGTGGGTGA
TCAAATAATATATATCAATATTTAATGTGCATACTTTTGTCCCATTAATTCTATGTTTAGAAACTTAGCCTAAGAATA
TAATTGAATAAGTGAGCAAAGAAATACTATATTGCAATATTACATATAATAGTATACATCTGGAAACCACCCAAATATC
TTTCAGGACAGAAATTGTAAAATAAATGATGATATATCTGTATTGAGATCTGTATGTATTGAAATTATTGAAATGTTAT
TTTAAACTCTACAAGTTGTTATGTGGAAAAAGCAATTTAGAGAATAGATGACAGAATATGGTATCATCTACCAGTGTGT
TTTCATGCATGCTTATATTTACATATATGAGATTATGTCTATGTACATGTGTGCCTATAGTTATGTATGTAGGTGTATG
TGTGGTATGTGTGTGTATATATATATATGTGTGTGTGTATTTATATCTATATACATATATATGTAGAGTGAGAGAGAGACA
GAGACAGAGACAGTACTACATATATATGTAGAGAGAGAGAGACAAAGACAGAGAGAGAGAATACATATATATTCTGTCT
AAGCAGGAAAAACCACCAAACTGTTACAGGTGTGTGAAGAGAGGATATTTTGAGAGGTCTTTGATTTTGTTTTATGTTC
TCTTCTCTTACTCAATTTCCTTTAAAATGAGCATGTGTTGTTTTTATAATAAGCAAAAATCATGTATTTTCTCCTTTTG
TAAAACAATATTTTCAACTTATTTCGTTTAATATATTTCACTTGTATTTCACTTGTTTCTTACCCCCCAAAAAAAAGCA
AAGGATTGCGTTTCATAAAAAAAATTTAGTAAAAGATAAACATGAGGACATCAAAGAGAAGAGAAAATGGCATGAAAATA
GTATGAACTATGAAAGCAAAAATTCATTTCATTAATTCCTGAGTAATTGCTAGAAACGAGTCACAGACTGGTTCTGATC
TTCCTATCAACTAATCCAAGGAAGGGAACACTGTTGCTTTAAGATTCATATATCGGTAAGTTAAAAAATGAGTTGCTTG
GTAAAATATATTGCTATTAACTCTGAGAGTTAAAAGAAATATTTCTCTGTGGTGTTTTATAAAAAAGATGCTATGTGAT
ATGGTGTGTGCAGTTTCAACATTTTTTCTATACTTCATAAAGTTTGAAATAGATATAAATGTTTCTTATAACTGTGACT
GATTCTTATAAAACTACACATTGATGGCCTGTTGTCTAAGTTCCATTCATTGAAAATCTATCAGCACTGGAGCCCCAGT
TAGCATTCTTAACAGGGCATTCTCTTTAAGACTGAACACTAAGTGTGCACCATTAAAAGAAGCTGCATTCTTCAACTTG
GAAAATTCTTCTAGACTCACTCTCCTGTATCCCACGTTCAGCCTCTTGTTCTCACCTGAATACCCGAATTTGATTTGGA
TGCTGTATGTGTTCTCTGGTCCTTAAGATTAAAAACTAAGGTCTTATTTTAGTTTCTTGCTCAAATATTGCTTTTTTGA
CCTGCTCTGTTCCTGTAACTGTAGCCCTCAAGCAAGCCCAACCTAATTCTCAAGTGTGGCTCAGAATTCTGGGACACCA
GCCCAAATTGGGTCTTCCTTATTTGTGATAGAATGGAACCAAAGGAATAAGAGAGGCTGGGCATCTTGGCTCACGCCTG
TAATCCCAACACTTTGGGAGGCCAAGACGGGCAGATCACTTGAGGCCAGGAATTCAAGATTAGCCTGGCCAACATGGCG
AAACCCTGTCTCTACCAAAAAATACAAAATTTATCCAGGCATGGTGACACATGCCTGTAATCCCAGCTACTCAAGAGGC
TGAGACACGAGAATTGCTTGACCCTGGGAGGCAGAGATTGCAGTGAGCCAAGATCGCGCCACTGAACTCCATCATGAGC
AACAGAGTGATCCTCTGGTATTTTTTCTTAAAAAAAAAAAAAAAAAGAAGGAAAGGAGAATTCAGTGTTGGTATCCAGC
TTTCTGATTTTCTGACATGAACACCCCATTGTCTCGATATTTATAACATATCCACTTCCAGTTGAATGCACCAAGATAA
TCTAGTTGCAAAATGTAGCCCCATTAAATACATGGATTGACACATTTAAATATAAGCCAGTTAAATGTTAGAAGTTACT
TACCAAAAAATGAGGTTGATGTTTTAGAATAATTTACTCACAGCCCTTCTCTCTGAAAGCAATTAGAGTAATACATTTTT
AGTCTATCGAGATTGTCCAAATTCATGATAACAATATTACCTAGTATGCAGGTGTGCTTCCAGCTCACTTGGAAGCATT
TTTAAATCATTAAAATATAAAGTAAAAGTTTGGACTCTTCTATACACACATTTTTATTTTACTACCACTCAATCATTCC
CACCACCTGGGTTTTCAGTTTTATTGAGGACCAGTTTCTTGTCTAATGATCAGTAGGCAGGGGTCTCTACTGTCCAGAA
ATCATGTGGTTACTCATCACGGCAGCTGCTACTACAGACACTGAAGAAAGATCATCCAACATGGATAAATACCCTGTTC
TTATCAGATGTTTGAGAAGTAATAGAGTATAATGATGCCCCTCATGTAGAATATGGTTCTAAGAAACCCATACTTATAT
TAACTCAGAAACTGCCATAAATAGCTGAAATATCCAAATAAATCAACAGACCCACAGTTTGTGAGAAACAGAAGGATGT
TCATGGCTTCAATGGGATAGGCCAAACTTTGTGTTGAATTATGTGCTTCTTTATGTCTTGTTTCCTCTGCCTGAAATGC
CTTTTCCTCCACACCCATTAGTGTTTTATAACACCTACTCATACTTCAGATCTTGATTCAAGCATCACTTCTTTTGGTG
AAGTATTTTCAGATCTCCCAAACCTGTCATAATACCATATAGTGCTCCTTTATATTGTTTATTATATTTTCAATTACAT
GTTTAATTGTATAATTATTGATAAGGCCAATTTCTTTCACCAAACTATAAACTCCTATGAAAATAATGACTCTGTCAAT
TTTTCTCACATTCAAACACAGTATTTGTACATTGCTTGAACTGAAAGAATTATTAATAAATAATTGAACTCCAGGGTTA
CCAATTTTATGAAGTTAGGAATATACTGTTAAAAGTAAGTAGAAAACAACTCCAAATTCAGACAACCTTTACCATGTGC

Fig. 6.158

TTTATTTTATTAAAGAGTTAAAAAATAACTATACAATTTATTTTATGTAAAAGACACTTCAGTTTACAAATGCAAATAT
CACCTCTGGAAATAAACCTAAAGGACAGGAAGTCATTGAAGAAGTGGCACCATGGATTGCCAGGATGATGATGTTGCAG
GAGAGTTATATTTAAGGAGACGGCAAATAAAAAAATGATAATAAGGACATTAGATACTAATTTCAATGTTATTTTGTGT
TTTGTCTTATGATTATTTTAGTGTTTATGCATTATTTAACATTTATTAATAAATTATAAATACTCTGGCTCAATTCATT
CTGTTAGCTTGGTTTAAACATATATAAAATGCCCACAGCTACTCCTGTTATTGGCATCTGGTAGTTCTGCATGACATTA
AGACCCAAAAGTAAAAATAAATAAATTTCTTGACTGAGAAAATAATTGCCAATTCAAAATGGTCTACTAACCTTAACAT
TCATAAGAAGAAGAGTATGTATCATCATCCTGGCAAAATGGCACTTATAATTTCATAAATGCTCCTTTTTAACTTTATG
TATTATTTTTATTTTGGGGGTAGTAAGATGTGGAAGCTGTTAGATAGTCATTACTTCTGTTGACATGGAATATTTTATA
AACATGAAATATTTCACAAAAAATAAAAAACCAGTAATAACAGGTCACATACACACTCAATAATCTCACTATAGCAATA
TTTCAGAAAAAAATGTATTTAGGGAAAACAATTTATGTCTGTTTGTTTTTAGTGGCAGTCATGACATGAGGACCCCAGA
CTCAAGTGCATTGCCATTTACTCCCTGGTAGAATGTGATTTCATTTCCAATGAGCTCAAACATAATGATTATATGTCTT
ACTAATTATACAAAACATGGTGAAGAGGTAGTGTGCTTTGTGATGTCACATATCAAAAATGCTTTCTTTTAAACATTTC
TATCTCCTTAGCTAGGTTTAAGAGATAACAAGATGGGCCACTGAAGTAACTTTGTCAAGCATGTTCAATGTAATATTTC
CCCAGAGATTGTTTTAACTGATTCGACCAAATTAGATTATTGACTTGACAATAATGAACAAGATACCCCTTTGAATTTT
TGTCACTACATCTTTTTGTAACTCATGAAAAATTTCAGGCCAGGCACAGTGGCTCACACCTGTAATCGCCGTACTTTAG
GAGGCCGAGGCGGGATTATTACTTGAGCTCAGGATCTCCAGACCAGCCTGGACAACAGACCAAAACCCTGTCTCTACAA
AAAATACAATAATTAGCTGGGTGTGGTGGCGTGCACCTCTGATTGGTCCCACCTACTCAGGAGGCTGGGGTAGGAGGAT
CGCTTGAGCCCAGGGGTTCAAGGTTACAGTGAGCTATGCTCCTGCTGTGCTGCGCAATCCAGCCTGGGCAAAAGAGTGA
GACCTGTCTCAAAGAAAAAAAAAATCAGAAATGTTTGAACCCATAAAGTAGATAATGAGGACATAGTGGGAGTATGTAG
AAAAGCAATAACAGGCCAGGAGCAGTGGCTCACGCTTGCAATGCCAGCACTTTGGGAGGCCAAAGCTGGTGGATCACAA
GGTTAGGAGTTTGAGACCAGCCTGACCAACATGGTGAAACCCTGTCTCTACTAAAAATACAAAAATTAGCTGGGCGTGG
TGGTGTGCACCTGTAATCCCAGCTACTCAGGAGACTGAGGCAGGAGAATCGCTTAAACCCGGGGAGCGGAGGTTGCAGT
GGGCAGAGATTGCGCCACTGCACTCCAGCCTGGGTGACAGAGCGAGACTTTCGTCTCAAAAAACAACAAAAAAACCCAA
AAACAATAACATATAGCAGTGTTGGCCCTCAAGCAGTCTGGCAGCCTTTTTATTGCTTTGGATGCCGTTTGTGTCTAAG
CATTTGCTTTAAATATTTGATGTAGTTAATTAATGAGTATTTTGGATCTTCTATTATACAAATCTGCCTATGAAAAATA
AATGCAAACAAATTACAAATTTCAAATGATAGAAGACCAAACGGAAATACAACGATAATGTCCTCAAATGTGCACTAGT
AGTTTAACAGAATATAACTGCCATCTGATTATTAAACAGTAGAAATTGTTTAAGTAGATAGTTAAAAACTGTAGTATCT
AATGGTTAGTATTTTCCAAGACAGTAGCCTAAGAGAGTAGTTCAATATATACGGAGTTCCGGCTGTGGAGGATGGGGCT
GGTAAGGAAAAGCAAGAAGAGGAAATAAGGCTTTGCTAAAGATTCCTTAACTTCCCTATAAGATGTTACAGAGGCACTG
ATTGGTTTTAAGCAGGGAAATTATGTGGATAGTTTTGAATTTTTTAAAACTTACTTTGGTAGGGCCGGGCGCGGTGGCT
CACGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGAGAGCGGATCACGAGGTCAGGAGATCGAGACCATCCTGGCTAAC
ATGGTGAAACCCCGTCTCTACTAAAAACACACACAAAATTAGCCGGGCGTGGTGGCAGGCACCTGTAATCCCAGCTATT
TGGGAGGCTGAGGCAGGAGAATGGCGTGAACCCAGGAGGCGGAGCTTGCAGTGAGCCGAGATCGCGTCACTGCATTCCA
GCCTGGGCGACAGAGCGAGACTCTGTCTCAAAAAAAAAAAAAAAAAAAAAAAAAACTTACTTCGGTAGATATGTAGACCA
TGGAGTGGGAAGAAATTAAAGGTGTGATTTAGGTGTTTATTGCAGTAAACCAGATGAGAAATAAATGGTGATAGTCTGA
AACTGATGCTGTGGCAGTAAAGGATGGACATGGCAGTAAAGAGATGAATTTAAGAGAGGTTTTTTTAAAAGTGGAAAT
GATAGATCCTGTCGACTGACTGACTTAATGCTATTAGATAAAATAATTTTTAAATTACATGTATTTCCAAAAAGTACAA
TTAATGAATCCATGGCCAGGCATGGTTGCTCATACCTGTAATCTCAGCACTTTGGGAGGCCGAGGTGGGCGAATTGCTT
GAGCCCAGGAGTTCAAGACTAGCCTGGGCAATATAGCAACATCCCACCTGTATTTGAAAAAATAGTAAGTAAGTAAATA
AATAAAAATCCATAAGTATTTGGACACCTAAGGTAAATTTAAAATCTTGCAGTTTTGTTTTCCTTTGTTCTTTGTAATT
TTTAGCTTGTTTGAGTGGGGGAAAGTTTGAAATATTGGGTAAGGCAAACATTTGAAAAYGCTCATCTGCAGAGGAAATT
TGCAGTGTTGTGGATAGATCACTTGTGTCAATACGTGAAGCATAACAAATGCTTTTTGATTGTGAAAGCATAGGTAGAT
ATATTGCATTTCAGGTCACCACTAATTAATTGCATTAATTTAGTTAAATTGGTTTTCTCAACTCATCTGAAAAAGATGA
AAACTAACACTTCAAACTACTTCCTCTTGGTAACATCATAAAGACAAATGAACTTTCTTTTTCAGTCATTTCCCTCCTT
CCCCTGTTCTGCCCTCTCTCTCTAACTAGGAAGCTACTACACCAGCCTTTCCAGCTTTGGTTTTCTAATCTTAATTATT
TCTGTACCCATCTATCACTGGAAATTCTTCAAACACTGATGTGTGGATGTGTGTGTGTCGGGGGTTGAGGGGTGAGTTT
GGGGAGTGGTGCTGTGTGTTATTGCAAAATTATCCTTTTTTTGCTTTATCTTTAAAACCTTTTGGAAACTTGTCTAAAC
TTTTCTTTCTCTTTTTTTTGGCAGAATCTTGCTTTGTCACTCAGGCTGGAGTGCAGTGGCGCGATCTTGGCTCACTGCA
ACCTCCTTGTCCCGGGCTTAGCTGATCCTCCCACCTCAGCCTCCCAAGTAGCTAGGACCAGAGTTGTGTGCCACCAATG
CCCAGCTAATTTTTGTATTTTTTTGTGGAGATGAAGTTTCCGGAGATGAGGTTTCACGTGTTGCCCAGGCTGCTCTTGA
ACTCCTGGGCTCAAGCTCCGCCTCCCAAAGTGCTGGGATTACAGGTGTGACCCACCATGCCCTGCAAACTTATCTAAGC
TTTTTTTTTGTTCTTCTTCTTTTTTTTTTTTTTTTTTTTAGGTTCTGGCATACATGTGCTGAATGTGTAGGTTTGTTAC
ATAGATATACATGTGCCATGGTGGATTGCTGCACTTATGAACATGTATGTTTATTGTTTAAGCTTTTTTATCCTTTTTA
TCAATTGTATGTTTTTAAAAATCTCTGCCATGTGCTTTTGCCTCTGGCTAATTCTATCTGCATAGACACCATAATAATC
TGTTAATCACACTTAACAAGCCTTTGCATTTGATATACCTCTTACAAACAACCAAACGAACATGCAGGCAAAACAAAAC
AGCAACAACAATAAACACTTCATAGTCTTTCTTTTGCTTGTTTCTCTAGGATGACTATTCTTAAGACCCACACCTGACA
AGAATAATTCTTTAATTTTTCATTTTCTTAGAATCAAGGTATTGTGTTTTCATGTAGAGTTGTAAATATGGTATAAGCA
AAGATACTTGCTCTCAAACCAGGATTTTATATATATTTTCATATTTTGTGGTTCTATGTATGCATTTTTGGCTCTAAAT
ATTTGTTTTCATAATACCATTAATGTGTAGGACAATTACTATGTATTTTTGTTGTTGTTGTCCTATCCTTTTCCTTTCC
CTTCATCTTAGTATTAGGATAAGTATGCAACAGTAATTTTCCCTTTCTATGAGATAAAACTTCTACATCTTCCTAAGA

Fig. 6: 159

TAATATTACTGAGATAGCCATTTATAGATCATTATTTAAAAAGACTTTTTCATAGTGCATTGACATACACTATCCCAAT
TGTTCCTCATATAGAAGAGTTTTAAGTTGAAGAGAAACATAATCAATGTCCTCTAGAAAGATTCCTCTTGTAGTAGCAT
AGAAGGGGAATAAAAATAAAGCAAGACAGAAGGTGGGGGAGTCCAGTTGAGACATTATGATAAAAATCCAGTATAGCA
GATAGAGTCATAACTTAGAGCAGTGGAATAAATAGGTTGATATTATTAGGCTAGGTTTGTCCATTCTTAGCAATCAATT
AGAAAAAGGCAGGTGGATAAAGAATAAAGAGATGGAAATCTTAAGGTATGTACTCAGCCAACTGGGTGAGTGATGGTAG
CACTTACCAGGTCAGGGGAGGAAAGCTGAAGAGTTTGCTAGTGAACACACAAATAGAAATGTTCAGTAGATTATTGTCA
TCATCATCATCACCATCACTATCATCATCATTATCATATTTCCTCAGCACTATCATTTATTAATTTGTGAGGCTTGGTA
CTCCTAGAAGCTTTGCACAGATCACAGTTCACTTAATCTTTTCAACAGACCGTGGAAAATATACCCTTTTCTCTAGATG
CAGACCTGGAAAATGGAACTTAGAAAAGTTATAGAATATATATGTTGTTGTTGTCCTTTTAAGCTCAGTGTACATGTGC
AGGATATGCAGGTTTGTTACATAGGCAAACATGTGTCATGGGGGCTTGTTGTAGCGATTATTTCATCACCCAGGTATTA
AGCCTAGCATCTATTAGTTATTTTTCTTGATCCTCTCCCTCCTCCCACCCTCCAGCCTCCAATAGGCCCCAGTGTGTGC
CATTCCCCTCTATGTGCCCATGTGTTCTCATCATTTAGCTCCCACCTCTAAGTGAGAACATGTGGTATCTGTTTTTCTG
TTTCTGTATTAATTTGCTAAGGATAATGGCCTCCAGCTCCATTCATGTCCCTGCATAAGACATGATCTTGTTCTTTTTT
TATGGCTAATGCTAGAATTTTTATGACTCCAAAGTTCAGGTTCTTTCAATATATCAGATTTTAGGAACTCAGAAGAATT
GAGAGAATAGTGTGGATTGGTTGGAAGTTACTAGGAAAATATGATGAGCATCAGAAAGAACACCTAAATAAGGGATGCC
AGTGGGGAAAAGCTCAAGGATGGAAGCCAGAGGTGCACCATTTAAAGTGCAAGGAGGAAAAGAGGAGTCAGTGATGGGA
CCTAAGGAGGAATTCTCACTCTGTGCTTTTTCAAGCAGGATACAGATTCCTTCTTTTTTTTTTTTTTTTTTTTTTTTTGA
GACGGAGGTCTCACTTGGTCACGAGGCTGGAGTGCAGTGGCGCAATCTCGGCTCACTACAACCTCTGTCTCCTGGGTTC
AAGAGATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGACTACAGGCGAGTGCCATCACGTCCAGCTAATTTTTGTTATT
TCTAGTAGAGATGGGATTTCACCATGTTGGCCAGGATGGTATCAATCTCTTGACCTCGTGATCCGCCCGCCTCGGCCTC
CCAAAGTGCTGGGATTACAGGCATGAGCCACCATGCCCAGCCACAGATTCCTTCTTGTGTTCATTTGAAATGTGAACTC
TGAACAAAGGACAGTTTATCTTGGATAGTCTTATTCCATGATTTATATATCACTAAAAGAGCAGAGAATCTGTAGATAT
TATAAGTGGGATCCTTAATAATTAATATATGGAAAGAGAAGCTTACCAGATACCAGGATTTTTCTGCATTGCCTGGAAA
AGGAGGATATCTGCAAACTTTTGTACCCTGTGCACTTATCAGATTGGACCTCAGATGGGACCTCTGCCCCACAGAATTT
CTCTTTAATGACTCATTGCTTACTGGTCTAAGAAGAAAAATAATTATAGCCTCAGGTTAGAAAAATTGAAATTGAATCA
TTTCACAGTCAGATTAATGCTCCATTAGTCCCATCTATATGAAAGGGAGGAGGGAGTCACCAAGTCAGGTTGGAAATTC
CTTGGGATGATTGAATGTAAGGGAGAAAAACTGTGATAATTGACATAGTCAAGGCAAGAACCCAGTTCCGAAGCAAATA
TTTTCTTTGTGTGAGGAAAGGGTACAGTATTGCTGGTTCTTTTTTACATATAATATTACTTTGTATTCTCCCAATACTT
TATTTTTTTTTAAAATGGATAAGAAATCATAACCAGTAGAGAGAGTAAAGAAACACAGGTCTATTTTCTTTAATGAATA
TCATCACTCTTGAGTTATAACTCTATTATCTACAGTCTTGTTAAGTGAAAATTGTTCCTCAATAAGAACACTTTTTTA
TAGAAGTTGAAGTTCTCTTCTGGCACACATTAGAATTCTCCAGTATTCATATTTCAGTTTTATTCATGGTGTCAAAAGG
AATTGATGTGATAAAATTTCCAATAATGCAATGAGAATATTCACGTTTGTGCAAATACCATGGAGATGTTGAGAAGTAG
AGTGAAGGGACATTATGTGAAAAGTAACATCTCACTGGACTCACCAACTCTAAATCTTACTTTTTTCTTCAGAGATGAG
GTCTCACTCTGTCACTCAGGCTGGGGTGCAGTGGCATGATTATGGCTCACTGCTACTTTGAATTCCAGGGCTCAAAGGA
TCCTACTGCCTCAGCCTCCTGCGTAGGGAGCCATCATACTCGGCCATTTTTTTAAAAAAAAATTTTTCTGTAGAGACAA
GGTATCACCATGTTACCCAGACTGATCTTGAACCCCTGGCTCAAGCAGTCCTCCCACCTCAGTCTCTCACAGTGCTGAG
ATTACAGGTGTGAGCCACCATGCCTAGCTTAAATCTTGCTTCTTATATATGCAATTATTAACAATAGAAAGCTGTTTTG
TATTACTAGATTACTTGGTTTTTCAAAATTTCAACAACTCTTTTTGATTTTTAAGAATATTGGTTAGAATGGAAGTATT
GGCATAAGTCACTAGTTTTCAAAAACATACCCAGCAGAGTTGAAAGCGAATGTAAAACGCCATGGCCTGTTGATTCTAT
CATCGTATAGAGTATTTTTCTGCTTATGTACTTTTATTGTTTTGGTTTAGAGACATGTATGATTTATTACACCAGTATT
TTAAAGCACATTCTCCCTCTTCATTTCTGCAATGTACTGTGTCGAACCAACTTCATAGGTAAAAGTTGTAAAATATTGC
TAATTTCACATGGTTCAGCCTAATAGAATCTCATGCCCTTTTAAGCCTTGGAGAAGGAAAGCCTCTCATATTGTCTCCT
TCCAGATTCTTGGCTCAATCCAAGCTTCTGCATAGTTGGAGTGGCAAATCCCACTCCTGCATCTGGTGAGCTGTGCAGT
TAGCAGCTCTGACACTTTTCTACGCTGTTCAAACAATTACAGCCCCAAAATGTGAGTGTGGCCTTAAAAAAGGCTGATT
CCATGTGACTACCAGATTGCTTCAAGATCTGCCCAGTCATCCCCCTGACTGTGTCATCCCTTAAAAATCTGTGTCATCT
GGGTACAGAAAATTAGAAGAATGTTCTCTTGATCTCTGCTTAAATTTTCAGAATTTTTCCTTTGAAACCACGAACTAGA
GAATTGGAATTAGACTTAATGACTTGACTCTATGTAGTATATATTTCTTTTCTCCAAACACTGTTTTGTATACATGAGG
AGGGACAAGAAATGAAGGAAGGGGAAAAGTATAGCGTTTCAGCCCCAGAAAGGTACCTTTCACAATGTAAATGCAGAGT
ATCTGGTTAGACATAGCCATTTTGCTCACAAGCACATTCAGAGATGAAGACATGCAGTCTCTAATTGTTTCGTTGTATC
TAAGAGGGTGAAAATAGAGGTGGCATATGAAAAAAACCTTCCATTTTCATTGAGCGTACCCATATTCTATGGCATTTCT
TACCAGTCAGTAGGAATTTTTTTTCCTACTGATCAGTACTACTGAATTACCCAAAGGCAAAAATATTCCCTATTGTTTC
TTTGTTTTCTAACTTTGTTCTCTAGCTTCTAGGTAGATGTTAACTTTTTGGTATTTAAATGTGCACACTCCCTGAGACC
AAACTGCCTCAGCAAGTTTTACTTCAATATTAATGGGCAAGATGAATATTGTTTGATGTTTCACTGTTAGCAAAAGGGA
GGAGAAAGAACTAGAACTAAGTTCAATTGAACCATTACTATGCAGGGTCTATACAGTCATGATTATTATCTCAGATTCC
AAATTCTGTTCACCAAAAAATTATGATTATCAAATTGTTAAGATAGTAAATTTTATGTGTATTTTTACCACAATAAAAAG
TTGGAAAAAAATGATTTGACTATATCCAAGTTTGCAGAGTTGGTAAGTAGCTTTTTATTGCAAAAAACTTGCTGATTTGT
GAAAGAACCTTCATTTCCAAATTAGGAATAATTTCCTGCAAGGAAAGACTATGCTGTGTGTGTGCCTGTGTGCTCTTGT
GTGTGTGTGTGTGTGTGTGTGTGTGTAACTCTTCTGTTGTGAATCCATCAGTGGTTTTGCATTGTTTACAGGATAATGC
TCAGAATCCATAACAAGGTCAGTAAACTCATCTATCATTTCCTAGGCATGTCTGTTATCTGATCTCTAGCCTTTCTTCT
CCCATCGTCGCCAAGTTTAGTTCTACTTGACTTCCTTCACTTCCTTCCCATTGACCTAGGGAGCACCTCTAAGACTGAA

Fig. 6.160

AGGGAAGTCGTGGGCTTGGTGGAGTTGAGGTGGGGAATCTATGAACAGATAAATCAGATAGAAGCATTGTTTGGTAGAA
AGAAGAGCTCATGAGTGGCAGTAGAGATTGAGTTAAAGAGTGGGATGAAAAAGAATCAAAAGGAAGTAGTACGATTTGG
TGACCAATTTGTTAGAAGGGATGAGGGGCAGTAAGTAGTCAGTGATGACCCCGAGGTTTCTAGCTGGACCTAGAATTGT
CCAACTAGTCCAAAAATGAAAAAATTTGCCTTTAACTAAGATGAGTTTGACAAAAGATGAAGTAAATTTGAGGGTGTAG
GTAATGAAAACAAGTTGGCTTTTTCTCCCTTGATGGCAAATTTCAGTGTGTATGGATGTATACATTTGTGTATTTGTGT
GTTTGTCAATACCCATTGATTTTTCTTAGGTTATATTCAAATACTGAAGTTGTACTAATTAAGCAACCGAAGTGTATGC
TTTCAGCATGGTACCTTTCACACAGCACCAAACATCATTATATTATTTTCTATTGTAGCATAACAAATCACAACAAAAT
TAGCATCTTAAAACAATACACATTTGTTACTTTACAGTTTCCATGGGTCAGGAGACTGCACTTGACTTAGCTGGGTTTT
CTGTTCAGGGTCTCAAAAGGCTTTAAGAAAGGTGTTGGCCAGGATTGGGGTCTCATTTGAGGTTCTGGCTCCTTTTTCC
ATATCAGGTGGCTGTTGGCAGAATCAATTTCTTAACCACTGTAAAATTCCTTGAAGCTTGTTTCTTCAAGGTCAGCAGG
AGAAAGAAACTCTGACTTCTGACTTCTAGGCCATTTTTTGGAGAGCTAATCACTTGCTTAGACCAGACCAACCCTGAAT
AACCTTTGATTAACTTAAAGTCAACTGATTAAGGATGCTAATTACATTTGAACAATCCTTTAACTTTGCCATATTCCAC
TGGTTAAAAGAAAATTACAGATGTTGACCATCTGGGAGGAGATAGTGTAAGGGCCTGAGCTATTGGAGATCATCTTAGA
ATTCTGCCCACCACAATCGTGTTCTATGTTTATGCAGGTATATGTGTGAGTGTGTATTTATGTGTGTAGTTAATAACTT
AAAAAATGAATTACATGTATCCCAAAACAAGCGGCAACTGCACATCCCATGCCTTCTTACTTGGATTAGTTTTTCCTGA
AGTTACTCCAGGGTCCTGTCTTCCCATTGTTAGGTTTCCTTTCTGCTGTCCTGGCTTCACCTTTCGTAGCCAAGAAAGC
ACTAAATTTGGCTCTGAAATGTACATTTCAGTACAATCTCCCTGTCTTGGCAGCAGTGGTGAGGCTTTAGCAAATCGTT
TGTGATCCCAAATGAGCTTCAGCAGTTTGGAGTGAGGCCATGGCCCACATGTTTGATGCCACCAGCCTGATTTTTGTAA
TGAAAACTATATCAATAAGGTAAGTAGTCCCTTCTTAGGCATGCATTCTTTTCCAATTTTATGTAGTGGTCAGTCATTC
TTACAGTGATACAAATAAATATTTATGCTTTCATGTCTTTTAAGCTTTTAGCAACGTTAAAAGAAAAGGAGTCTGTAAT
GAATGAAATTGTCCCATTGAACTTATTTTTTCAGCTTTTGAGGATATATCGAGTGTACTTCTTAAAACTGAACATGTGC
ATTTGTTACATTTATATATGTTTCCACATATCACTTTGTAAAAGAATTAGAGAGAGCTTATGAAATAGAATTTAAGTTG
ATTTGGTATGAGCAAAATATATTGTTGGAATGAAGCAAAGGAAAGAAAGCATAAGAGCCATCATAGTTAATTCTGTTTA
ACTTGTTTTAACTCTATCAAGGTTGGGCCAATGTGGCAATTTATTAAATAATTTGCTCTCATTAATGCAAAAGAAGAAA
TGTTCCTTAGGGAAAAACATGTTGTCTTGGGTACAAAATTCCAGCAATGTTTTTTACCACATGAGACTTTATGGAAAAT
TCCAGATAACAGACCTTGCCCTAATGGTATGTGGGCAACAAATCCAGAAGTATCTATCATAGCATTCTTTCTTATAACA
AATTTTATTAGAAGCCAAGGCTAGAATGTTGAAGCTGGACTCCGGGCAGGTGATTCAAATGCCATACTATTACTTTCCT
AGCATGGACAGTTCTGGTTATTAACTCACTCTTACATAAAACTTTTAGAACCAAAGGATTGGAGGGATGCTGACATTCC
TTAGATATCTTAGGTAATAATCCTGAAAATTCACTTTTCCTGAAGTTTTTGATAGCAGATAGTAAGAAAATTTCACTTT
AAAACTCACTTTGAGGACCTGAAATGTTATATTCCACTTTGCTGATTGAGGTCAAGGACTATTGTTTGAACCTCAAACA
AGCAGGTGGTGAGGTTCACTTTCAACTGGTAATTACGAGAAAACGAACCATTATGCTAGATGCAAGGCCACCTCATCTT
GCATCCGGTAAACATGCCAACAAAAACACAAACAAGTGTCTGTAATACCTTTCAACAGCTCCCTGTTGCTCTCATTATA
AATATGGAAATCCTTACCATGGCATTCAGGAATCTGCATGATCTGATGCATGTGTATATTGACAGCACATCTTGTATCA
TTCGTGACATCACTCTCTATTATTTGGCTGATTTTGACCTAATTCAGCACTTGGAAACCACCATACTCACTCCTGCCTT
GGAGTTTTTATGCATACTGTTTCCTCTACACTGAATAATACCTCCAAACCCTACCGTCACTGCCTATTAACCCCCTACT
TCTCCTGTTTCTCAGTTCAAATCTCCCTTTTTCTGATTATGTGTCTCTGATTCTCCAAATCTTGCCAGTTGGCCCTGTT
AGGGACTCTCAGAGCTTACTGTAGTTTTATTTCATCCATAGCAGCTTATGAGATTTTTTTCATTAATGTCTATTAGCCA
GATCGTCAGCTCCATGAAGGCAGGTTGCAGGCTTGTTTTCTGACCACTCTATCATCAACCCAGAGCACAATAAATGAA
CATAAAGTGAATTCAATAAAAATGTGCTGAAAGGATAAACTACTGTTATTTACTACATTAATTACAACTTTTGTTAGCC
CCTTACAAAAGATGCTTTCTTAGATGCTGCATTTCCCATTCTACAGAGGTTGAATAATATGACTATGATAGTTTTAGAG
GAGATGGGAAATAGTTTGGTATTTCTTAAATTAAAATATGAATCTGTTAGAGCTAGAATTTTATTTTCTGAAAGATAAT
CTTGTTTAGCCAGTGTGAGAAACTACATTACACAAAGAACATTTTGCTAGTATTATTTCGCAGGAGAACTAAACTTGGT
AAACTGTCGTTCCTAGAAGATTGTTTTTATCAGGCACCGTTGCCTTCTTTGAGCTTTATGAACTCATGTTTTAGGACAG
TTAGACATTACTGATGGAGTTAGAGAATACTAGAAAGTGAACTTCAGCTAAAGAAAGTGATCTTTTTTCTCTAATGGCA
ATTCAGTTGCAAAGTTCTATTTTTATTCTAAGGGGCTCATAGAGGGTGGTCCCCAGGATTCTCTTAGGGGTCTGTGAGA
CCATACATATTTTCATAATAACACCAACATGTCATTTGTAATTTTCACTGTACATTTTCTCAGCAGAGTTCTCCAGAAG
CTATACAATGTGATGCATATTATTTCATAACAGATTGAATACGGAAGCAGACATGAGAACCTAGATGTCTTCCATTAGG
TGGCACAAATAAAAAACATTGTCACTCTTCTCACAGTTTTTGGAAAATAGTTATTTTTACCGAAAATAAATTTATTAT
ATTTTTTGAAAATGAATTAGTAAATAAATATTTATAATTGTCTCAGTTTTAAGATGGCAAATATTCCACATAAACAAGA
AATCTGTGAGTCTTCAATAATTTTTAAGACTATAAAGAGATTCTGATACCCAGATATTTGAGAATCACTTCTCCGAGCC
ATTTTATTGACACAATTTTACTTGACTTTGCAACCTGACCGTTTTAGATACCTTTTCTTTCCAGTCTTTTCTAAAAGAT
CAATTGATTAATTGGGTTGACTCGATGATACAAGCACACGATCTTCAGTATCAAAAGATACTCATGACCAGTAAACCCC
TCTTTAGTTCTCAATTATCCAATTCCCTTTCCTGGAGGCAACTGCTACTCTTGTATTTCCTAATGGAGATCTTTTATGT
GTTTACTCAAATGCTAAGACATAATATATCATATTCTGCTTCCTGCTTATCTTCCCTAATGATATAGCAAGGAGATTGA
TTCCTAACTCTGCATGCAAATCTGCCATAGTGCTTTTAGCAATTGCAGTATCGTCCATGATCTGGATGAGACATAATTT
CACCAGACTCCTGTTGGAGTCTGTTGGATTGTTTCCCATCCTTTGTCACTACCTACAGTGTAGTGATGACTATTCTTTT
ACTTATTTGTTCATGTAAAGTAAATATATCTCTAGAATTAATATTTGGAGGTGGAATTCCCAAGTCAAAGGAAGGAAAT
ACATATTTTTTAAAAGGATTTTAGTAGATTGTTCTGAAAAAAATTACACCAAACTTACCCTCACATGACTATTTTTTGCT
TTTTCTCAGTATACTTTTTTAATAGATTGCATTATAAAATTTTAATATTTACCATTTAAATAAGTGAAAGCAATGTCTAA
TTGCAGTTTTAATTTTATTTTTATTAAGGAAGTTAATCTTTTTTTTTTAGCTGAAGTCGAAAAAATATGTTCATCTCTTT

Fig. 6.[16]

TTCATTGAAGCTCATTAGTTTCCAAAAATGTGTCCTCATTTCATACAAAGTATCTTTGAACCATTGCCAGGTCATAGAA
GTGACTCTTGAAGATCTTCTTCTCTGGGATCAAGCCTCACATCTCGTTCTCCTGGCTTCATACCCTTCTCTCTCTACAC
ATCTCAATTAAGTAAGCTTCCTTTCTTATCCTCTGAAATTATAATCATCTTTAGGCTCCCAGATATAGGTGACCTGTGC
CATCTAGTCTGACTTCCAGTTTGCAAATTATCTTCAAAAAGTGGAAACAGCTTTTACTTTCTACTTTATAAATTCATAC
GTGCTCAGGAGGACTTTTATTAAGATTGGGACATATTGCTTAGTTAGTCTCTAGGGTGGAATCATAATTAATGAAAGAA
CTCTGTCTGATGGAAGGCTTAGTCTAACAAATCATCCTAAAACTTCATTAGACATTGTGTAATCCCCATGGACACTGTT
GAAGAGACACTTGATTAGGCAGATCGTGACAACTTCAGCTTTGCCCATCATACATCCTCCAGAGACTCCTCAAACTCAA
GACAGACTTTCTACAGGAAGGAATGGCTGTTTCTATTTCAGAATATTACTGATACCAGAGCTTTGCTGCATCTTCATGT
ACTTTCCTTTATTTTTATTTTTATTTTTTTACAGACAAAATCTTGCTCTGTTGCCCAGGCTGGAGTGCAGTGGCATCAT
CATAGTTCACTGTCACCTCAAACTCCTGGGCTCAAGTGATCCTCCTGCCCCGGCCTTCCGGAGTGCTAGGATTACAGGA
GTGAGCCACCACACCCAGTCTTCATGTACTTTCTTATGTAAATTTATTTTGTTTGAGATTTTCTTTGTGATGGAATAAG
CAATTCCTTCCTTAACTCATTTCCCGAGACATTTTTGGAATTTGCAATATATATGAAAAAGCACTTATTCTCAGTGATG
GAAACACCATTATTTCTTTTACTAGAATGTGATCTTCTGGTTTTAATATTTATGTCTCTGTGCCAAGGTGAAAATATTG
TAGAAATGAAAGTATAATGAGAGAGAATCCAGATAATAAGATTTTCAATAAACAAAAAAAGAAGTATGTATAGGAGTCC
TGTCTGCTGCAAATTTTAAGAATGGTTTTCTGTCAACATACAGTTGTCATTGCTTACTGAAAACTTCTATAAAAAACAA
GACACAAATGATTGAGAAGATAGTAGAGACTGAAACTAGAACTGTTGATTTAATAAGCTTTCTTACTCATATACTTAAT
CCACAGTAAATTATTAGCAAATTACATTTTCATAGTATTTCAGAATTAAAAGATCATAGTCAGGGCTTAAAGGAATCCA
GTTGTTTTAACAGTGCTGGAGGCAAAGCGTTCTAGCAGCAATCACCTGTCAGAATGACTTAGGTTGGATTGTTTGCACC
ACACACTTTACTATAGTTACATGTCTTTCATGTCCCTTTGTATCTCTGACTCAGTTTCCTCATCAGTGGTAATAGCAGA
ACTTACATTTTAGTGGGAGGATTAAAATAATGTACATGAAATCAAATATATAAGTCAGCACTCAATAAATAATAGTTTG
TCATCATTATTACTATAGTAAATGACCACTATCTGAAATGGGATATAAAAAGGAAAGTGAAATTACTAAATAAATATGA
GCGTACAAAGACCTGACAATTTAGATACAATATACTCACTCTGTCTCAAAATAGTGTCTTCTGAAGCTTTAGTCAGAAT
ATTATGGTGACATTTCTGCTAGATTTGTCATTGAGTTGCTGGGTTTGAGGAAGAACCTAGGCTACACATTTCTCTTGGC
TCTACAAAAGGCTGTGGCAGTGGGTCCCTGAGTAAACCACCAGAAGAAACCTAAGGGGCACCTCTGTTTTTCAGTTAAT
CAGTTTTAGCTCAACTGGGATTTAATCCTGAAAATCTAAATTACATTTACAGACTTTAAGTTATTGTGAATATTTACAC
TACATGGGAGAATTACCAAAATATATTCGTTACTCATACAGTTTTCGAAAAACAGGTGAGACATCTTCCAGTTAAATTC
ATCTTCCTTTTATGTTTAATCTATTGAAGAATTCTAAACATTGTTTTGCACCAAATTGCTCCCTTAAGTTTTAAGAGCC
ACCTAGTTTGGGCATCAGATGTTCTCCTTTATTTCTGTAAAAATCTTGCAAATTCACTCCCAGAAAGAAATGTAGAGAA
TACTAGGCTATTTCACAGAAAAGGCTTGCTGCCCTTTCCTGATAACAAGGTAGTTATTATTCTTGGCTGAGCCTGTCCC
AGAAAGAGTCTTAGGTGACCTGGTGTGGGAATTGCTAAATCTCAGGCTACTCACTGAGACTGTCTGCTGCTGTGCTGGG
CACTGCAGTCCTCCAGAGCAGGCCTGTCAGCATCCTACCGTGCTCTGAGTAGGTCCACTGGGGAACCTGGTGGAGTGAC
ATCATGTATCAGCCTCTAGCAGCAACTCCTCTCTGTAGCCCCATGTCTTTCCTGTGGTACAAAGGAACAAGTGCTACAG
GGCATGTCTGTAATCGTTATCCCAAGGGCACGCTCCACAGGCATCTAAGGGTGAAAGGTACTGCCAGTCTGTTGGGTTT
GTTATTTCCATAGAGCTACACAGGAAATAACACCACCAAAAATAACACATTCAAACTCAGAGGGCAATCTTCCCTAACT
ATTCATAGGCACACGTCAGGCATTCTATACATATACCCAGCTCTTTGCTAAGCATAGTGAAATGCCCTTTTACATTGCA
ATTAATTATTAGCCAACATTGAATAATTATTGGTGAGAGGGTAAAGGGCAAGTGAAATAAAAATAGAGCTGGTTTATTT
TTAGGAAGACACTATTTTAATGTGTTGATTAATCAGACAGGTGTTTAAAAGCATTTGTTAGAGTCAATTCACAGAAAAT
CTCTTTTACATGCAGGTTACAGCCAAAGAAAGAAATAATAGCCAACACATTTACGATTTCAATTGCAAAAATTGTCATA
TTTTTGAACTTGTGTGGGTATTTGAAAATATTAGCTCCTACTAGGTCCAGTTAAAGCTTTTAATTCTATAAGGTTTCAG
ACTACCAGCTGACCACTGCTCAGCATCCCCTGGACTCCAAGGGTTTCATCTAAGACATCTAAGGAGAATGTCTACCCGC
ACATCGCACTAATGCCCATGACTGCACTGCTTGAACCATGAGGTTATTGAACAGAAAGCAAATCCTTTTCTGAAGAGCC
TCCAAGATGTGGATATTTCAGTTAATTTCAGCTCCCTGCCAGCTCAGAAGAATGATGCTGTGCTGTGTGCTGTTCCCAT
GAATACTACACGCAGGGCACTGCTCAGTGACTCAGCCTTCCAGGGAGCCAGTCAGGGTTTTGAAGCTGCATCGTCCCTT
TCATCCTTGAAGTTCTTTTGGATTTCATCAATGGCATGGAGGGATATTTTTAAAACAATGGAGATTTTTCAGGACTGGC
AAAAGGGCTCCCCTCGTCACAGTGCCAAAACCATCACAAACATAAGTTATGTTAAAAAAAATCCTAAACTAAAAATATC
TGGTACTTAGGGAACTAAAAGACATCTCATGTTTGCTATCATTTCCATCAGAGCTCAGGTCAATGGACAGAGATCAATA
CCAAAACAAACATGCATACTTAGAGCATAAATTCAGATAAATGCTGGAGAATTAACATGTAGATAGAAGTACCATCATG
CCTAAAACAAAAACTCAGTCCAATGGTTGTTTCAGTGAACTGACTAGCCTTCATAGAGAAAAGTTTATTCTTTTCAAAC
TGAAGTTAAAAGATATTCGGTGCTTCATTCGAAATTTTCTATTTCATGATTTTTGAAGTAGTGATTTAGAACTCTTTAG
GACTATAGAAAATCATTTTTCTTCTAAAATGTTGTCTTAGTCCTAAATTAGAAAAAAAAAATAGTAAGAAATTAACAAAA
CAAAAAGTTAATAGTATTATTCACATATATAAATAATGGGCCATCATGGTATCTGATTTTGATAAAAGGAAAATATACT
CTGGGATTATTTTTCCAAATTCTGGCACTCTATTTATGAGTACCTAGACAGACACTAGAGTCTCATGGAATTTAGTATT
AGAAATGCTACTTTGGAGTACATTTGATGTCATTCAAGTTAAAAAATTAAGGAAGTAGATTTTCAAAATAGGTAGCATA
AAATGTAAAATTATTGAATGTTGGAGCAAGAAGATCATCTAATGCCCTAGCAGTTCTTAATGTTGCTTGGGTCATGGAT
CCCTTAAGAACACGATAAGAGTTTACCTTCTTCCTCCCTAGAAAATATACTGCTTTTTCTTTTATAATTAAAACAATAA
TATGAAAGTTAATCTTAGTCCAGAAGTCCTAATAGCCCAAGAATAGAAATGTCAAATTCATCTCATATCATTAGTTTGT
AATTTTCCGTTGCCCTTTTAATTCCAATAACACAGAAGCTGTAAAACTGCTTGTCATCTGACTTTTTATTTGTCATTAC
CCAATTGAGCTTCTTATATTACAGATAAGGAAATTGAGGCACAGAGATATTAAGAAACTTTTCCGCAGGAAAAAAAATC
TGCTAGTTATTGAGCTGGGATTCAAATTCAGGTAGCTGATTCTAGTGTGCATGTGCTAACCACAGCACATACTGTGGCT
AACCATGCCTACACTCATGCTCAAAACTACGCTGTGATAGGTCTTATTAGCATCCCCATTTTACAGACGTGGAGATTGA

Fig. 6.162

GGTGTAGAGTGGTTAAGTGACCTGGCAAAGGTGGCAAAACTAGCATCACAGTCAGCCAGTCTGGTTCCAGAGGTAGGAA
CTAAACCAACACACTGCCCTTCACATGCCTGTGTGTGAGTTCGCACACCCACACAATACATGAATTGTACATATGTAT
CTTAGAGGTCAGGGTAAGCTGAGGATACGCATGACAAATGGGATTAGATATGACTTTTTCCTTCTTTCTTTCTTAGTTT
TCTAATTATTTTGTTTTAAGCAAGCATTATTTTGGAATAAAAATTATAAATATTATTTTTAAAAAGCAAACAGGTTGAT
AACTTAAAATGTGTTAGCTGGTGAAACGTCCAGCCTTATGGAGTAGGCCCCTGAGGTATAGAAATGGTTTTGATGGCAT
AGGATGTAGCCTTGGGAATGTCCTGGAAGAGTAGGAGCGGCCAGTTAGGCATTAACACTCAGGAGTAAGGAGACTGCAT
TTGGGATGCTCAGCTGATTGGAGGGTGGTGTTGAGTGGTCCCCTGGCAGTGAGAAGAGAGGCCAATAGCACTGGCACA
GGAGGACAAGCAAGTTGTTCTAAGTAAACTCTCAAATGAACTGAGAGATAAAAACTCTAAATTTGGACTGCTTCACAAT
TTGCCTAAGGCTGGCCCTACTCAGGCCTTTGCCAGCTGTTGTTTTCTTTTAAGCCTCTGATCTGCAGGAAAACAGTCCT
GATTTCACAAAGCTTTAACAGAATTTTTATAAACGCAGATTTGGGGCTCCATATCCACAAAGTTTTCCATCCTTTATTT
TGAGAATCTGCATATTTAACAATGATCCTCCCCAAGGAACTGCAATGCAAATGTCCAAATACAGTCCTTGGTAATATGT
GTTTTCACAGGGTGAAGTTTTTGTCCAACACTGTGAGATGAGAGCTGGGGGAAAAAAAAATGAACATTAACCATAGAACA
GGAATGCAAATTTTCTGAAAAGTAGAGCGCTACTCCTCTCCTCTCTTTTTCTCCATATAATTGAAGAGACACTCAAATT
GATTGTTTTCCCATTGTTTCGAATGGTTGCTCCATGTAATTACTGAACTGAACTGGTAGTTTGGGGGGAATAGGGGAAA
TTCAGAGAATGTTGTGTAGAAGTAGAAGTCTACCTATGTCAATGACCTATTTTAGCATTTTTCTCTATTAACTGGCTAA
CAATTCGCTTGGAAACTCCTCCAGCTGAGGCTTTGTTAGGCTTTGCTGAAAATAAATTAGGTGACTCATTAAATTGTTG
CTGGAGTTAAAAAAAATTAGGCTTATTGATTCTTAAATTTCTGCTAAAAATGTTGCTAAATTAAATATAGGTTATTGTC
TTTATCAAAACAAATAACCCACAGCTTCTGTATTGCTTTATCTGTATTCAAAAGTTTGGGCCGGGCGCAGTGGCTCATG
CCTGTAATCCCAGCACTTTGGGAGGCTGAGGCGGGTGGATCACCAGAGGTCAGGAGTTCGAAACCAGCCTGGCCAACAT
GGCGAAACTCCATCTCTAGTAAAAATACAAAAAAAAAAAAAAAAATTATCTAGGTGTGGTGTTCGGGTGCCTGTAATCC
CAGCCACTTGGGAGGCTGAGTCAGGAGAATCGCTTGAACCCGGGAGGCAGAGGTTGCAGTGAGCCAAGGTCGTACCATT
GCACTCCAGCCTGGGCAACAGAGCGAGACTCCATCTAAAAAAATAAAAAATAAAAATAATTAAAAAAAAAAAGTTCGAA
CAACAAGGTTATGTTAGCATTTATCAGAAACTAATGATAATTTATGTGGTATTAAGTAGGGTAGTATCTTGAATGAGAA
AGAATACTGTAGTTTGGATTCTTTGGAGGACCTTCGGTTTATATTTTATTTGCAATTATGTTTATGCTTATTATTTCTG
CTTACTTTGTGACTAAAAGCCAGTTAAATGTGATTCTCAGATTTCATTTTCAGTGTTTTTATTAGAATGTGGTCTTTTA
GGATTTAAACCTATTTTCATCTTGCAAGTATATATTTTAAAAGTGATTCATTTAAATATTCTGCTCAGCAATTAGCACA
AATGTTGTCACTAAATTATTACAATAGTAGCTATTAACTTCAATAAGTAAAATAACAGTTCCCTATTGTATAATATATT
TAGAAAAAAATCACTTAGTGGGGTGCATGTATGTGGAACAAGGTGAAGACTACCTATCTCATCACAGAATTCCTCAATT
AAGAAGAAAGTGCTCTTAATTACATCCAATGGCATCATTTTCATGAAGATAATCAATAACAAGTGACTTATTTCAGTGT
CTCAAATTTTCAAGTTTATGCATCCATCTACTTCACAGCATCCATCTCCATGGGCCCCAGGCTGATTCTTGTTATCCTT
GCTCAACCTATCCATTCTCACAGTAAAAAGCCATGAGAGCCATTATTTTTTAGGAAATGTGACCCATTATCCCCAAATC
ACTGGGAAAATCACCTTACTCGACGGGTCCTTATAGCTATCCCTAATATCTTGTTGATTTCTCCTTTAACCTTTTTACT
ATGCCAATGAAAATGGAGCAATGTATAACTCAATAAACTCCAATTCAACTGTCAAATATCCCTTTCTTCCCAAATTCTG
TTTAAGAGTCTGTGGGCCTCTTCCAACTACAATCCCTGCACACCCATCCTTAGCATTAGCCATTGTACTTTTAGAGGAC
CAATTTGTAAACTTGATCATATCAATCTTGAAATCTAGGAACAAAGAACCAAACTGATAAGCTCTTATATCCACACTCA
GGAGCTCATCTTCCCTGATTACCTTGGGCTCCAAGTACCACTTTCATGAGTGCCTCACTTGTGTAGAATCTCACCATGG
TACAGCTCATCACACCATTTTATTATCCAGCAGTGGAAATGTAAATTCATATCCTTTTAACACTCACAAAAGGAGTCAA
TTTCAGTCAATTTTTAGGAAATTTGGTGAAAGTTTAGTTGGTTATTATCCTGTTCTTCAAAAAGCACATCATTAGACAT
ACTTTTAAAAAACCAGAGAATAATCTTACCTTATAAAGACAAATGACACATGTTGCTATGAGTTTAGGGGAGGGTTACT
AACCTTATTATCATGTGAACTGTTTGGAATTACCTTTGAACCCTCTATACATGGATTTCTGTCGGAGGCCTAAGAACTC
CTTGTCAGGAGAAGGAAATGGTAGAAATCAGATGAATGGTGAAGTATGACCATTAGAAACCACCCTCTATACACCTACA
CTGCCTATTTTTACATCAAACATAGCGAACTGTCCTTTAGGAAGCAGAAAAGGCAGAGCTGAGGAAATGAGAGGCACCT
CTCATGTCTTTAAGAAAACAACTAAGTGGCAATTTCTGGAAAATAGGTTATTGTTTGTCAGGTATTAGCCTGAAATTTT
GCTTGAATTGTTTCTCCCTAGGAAATGAAAGATGTTCACTTCTTAGTTGTTTTGGAAAAACAAATACTTACTAAAGATT
ATAATGGCTATCAATTTAAACAAACAGATGCTTTTAGTGTCTTTGTGAATAACACTAGTGAATTTGCAAGAATTATTGC
TTTACCAACAAAGCATAAATTCCCATGTTGCTTCAGTACTTGTGCAGTGTTTGTTCTGGAGCCTCTATTCAATATCAAC
CAGCGTATAGTAGTTCCTCCGTGAGAGTCTCTTGTAAAAACTTACATTCATTCTTGTTATTATTTTATCTGAGTGAATA
TTTGACAAAGACCAAAGAAATCCCCTTGAGACTGGTACCCATTTTCTCTAATTTGAAAGATATTGACTAATTTTGTTAG
ATCCCACCATGAAGGCAAAAGGAAAATATATTAGCTATCACTGTGGCTTAAAACAAGAAATTATTTATTATTTTTAACA
AATCTGAGGGGCAACTGGTGTTTGGTTGATCTATGTTGAACTTATGGATAGTTATGTGAGTGTCAGATAGAATCAGACA
TCTATGTGAGCTGGCGCATCTCCATTCCACATTCTCTCTCATCTTTCTTCTGGGACTGATGAGCTTGCCTGGGTGTGTT
CTTCTCGTGGAGATGGAAGAGGTGGAAGAAAACAAGCCCAACACAAAAGCACATTTTCAAGTCTCTGTCATGACAGTTA
CTGACATCCCGTGAATGAGGGCAAAGACAAGCAGTGGGGCAGGTCCTCCCACCCTTGATGGGAGGGCTCAGAATGAATA
CATAGATGCAAGGAGTAGGGATTTGGGGCCAGATGATACATCCTACCACAGAGAGGTAGGATACAGGGAAATTCTAGGC
CCTCCAGTCCCTTTGCTCCAAATAATCACCATAGTTGAGACTTGAACTATGAGAGCATCAAGTAGGAATGCCAGGTGAG
CTTCAGCTGCTGCCCAAGTGTCTAAGAACACTCATTCACCTCTCAGATACTCACATACCTATGAAATGCACCAATTTCA
TATCATGAGCCAAAGTAAAACTCAGAATCATTGAAATATTTGTCTTTGCATAGAAAGAGTCCCATATGGAAACAACCCA
GCCTACCTGCTTGACTTCCTGCCTGCCTGCATGCCTCCCTACTCCCTCCCTCCCTCGCTACTTCCTTCCTTCCTTCCTT
CCTTCATCTCTCCTTCCTTCCTTCCATTCTCCCTACTTCCTGACTGCCTATGTGCTTTCCTCCCTCCCCCCTTCCCTCC
CCCCTTCCTTCTTTCCTTCCTTCCTTCCTTCCCACCTTCCTTCCTTCTGCTCTCCCTCCTTTCCTCCATTTCTCCCTCT

Fig. 6.163

CTCCCTTATATTTCTTCAATTCTTATCATTTGAGTATCTAGTTAATGAGTTCTCATTTGATGTTATAGATTTTTTTAGC
TCTTCCTCACCTGTATTCCTTGGAGTAAATTTTATGAATCTTAGAAACAGAGTCTGGCTGATAAATTTATTGGTGCATC
AAACTCATTGAGAAATGTCTTCCAGTTTCATCTTCCAAAATGTTACTAGTTCTAAAGGTAGTGGTTGATAGTTCACACA
AAAAAATCAATACTGATTCAGAAATAACTTGCTCATCAGGGAAATAAACCTGGAAGGTTTTAGTCATAATTTATTTATA
ATCCCTCCCTATGTGATATTCAGAGATGAAATTTGAGGTGAAAAAATTCAAGTATTCTTTTTCATATATTTTGAAAATA
TAAGAGTCTTTGATGTATTCTGGGAGCTAGCATCTTGAAAAGAGGAATAAAAAATGACTTATCTGGAGTTAGGAAGGTG
CTAGTCCATCACCCATAAACCAGTTAAAGAGATAAAGGTGATTTATCAGAAAGTACAACAAAAGTGATAACAATAGAAT
ATTATTCTCCATACCAAGCAAGTTACAGGTATCCCCTGCTCTGGACAAATGCGTGATGTGTAAACCCAGATTGACCAAG
GGCATAAGGGAGATGTAGATCTGTAGCTTTAGCACACATGACCAAGGTGGTGCACTTGGTGTAGGCTCTCGGCTGATTG
CTGACTTTGCACACTTGCGGGGCATTTCATGAATCTAAATTCGGGAATAAGATTTAGAAGCTGGCAGATGACGAAGAGA
TTGTTTGGGCAACCAGGACTCTTGTATGTGACATAATCAATGCTGAAGTTAGTTCATCATCCCATTCCTTGTATTTCCA
AATCTGTGATGCTTAGGGCCTTATCTAGTGCCTTTTACCAAGTGGGTGGGTTGTAGAAAAAAAAGGACTAATACTCATT
TTCTTTGAAATATAAGCTTTTGAAAGAATATTTTAAAAAGAGGACTAACATTTTAGCTTTCATGTAAAAGTTTGAAAAA
ATGCAATTTCAGTACTTGGAAATGAGCATTTTAAGACTCCTTGTTGACTTCCCTTGTATTTTAATGCATTTCTAGAGAG
ATGTCTGCTTCTGCATTGCTTCCCCATGATTTACTTCAGTTGAAAGTTCAGCCAGATCCATTATTTTCTTTCTTTGACA
CATTATGCAAATTAAATGCAAAATTCAGTGATGAGAGGAAGAGGTCTCAGAGCATTGAGCAGATGCCGTGTCGGTAATA
GAGTAAGGCAATTACAAAATTACTTGCAGCCACTGTGACTGTGTATTTTCCCGTATTCTGAAAAGAAATCTGTCATGTG
CTCATCACTACGAGATTTATTTTTCCATTGATGTGTGGGAGATTTATGCATTTAACTGTCGTACACATTGATGAGAGAA
ACATGCACCTACAGAAATAATTTTTTATAGATTAGTGAGATATTTAATTCTGACTTTCTTTTCCACTAAAATGATCCTT
TGTAATAGTCTTCTCTTCGCCTGTATTGTAAGTATGAACATCAGAATGGCTCAGTAAGCTGGAAGAGCAAAACCATGTC
TGTGTGTAGAATTCCAATGCCAAAAGAGAAATACCACTTATCTTCCACTTCTATAAATAAAGGCAATAGCAAAGTCATT
AACAAGAGCAAGGGGTGAATTCAATGATCTCTAAGATTTTTTTCCAGCTAAAAATGATATGATTCTTATCTATTACTAG
GAAATAGTGGTATTGAAGTAGAATTATGAGCTCTACATTCAGTCTACTTTTCACATCGGATTGTCATCTCATTTTTGGA
GGGTAATTCTCTTTAGATTCTCTAGTCCTAAGCTGTAATATGTCTTATAGTTGTCATATTTTAGTGAACAAACCAGAAA
AAAAGATTGCCTGCATCATATGTAATTTTTGTTCAATCCAAGGGCAATATCGTAGAATACTTGACTCATAGTTTAAAAT
GATCATTTTTATTGAGTTCAAATTAAGTCTTCTGTAGATATAATAATTATGTGAATCAAAAATATGTATTTGTGTGAAG
AAATGCTCTTTCTTTTCAGGCTTGCCTTCAAAAAAAGTTAGTCTCATACTGAATGGCAATAATTTCTTCTTCCTGCCTC
CTAAGAATACATTGAGGATATAAAATTATGAGACTAGAATGCTCTTATTTCAAAAACATTCACAGTAGGCATTGGCCTG
AGCAATAATTGTGAATGTTTCATATTTAGAGAATGGGTAGATTATTAAATATGAACTATGAAAATTTCTACCCTTCTGG
TTTTTCTGTGGGATATAATCCTCTGGTCTTAAAAATTAATTTAGTAATGGATTTTCACAAGTTCCCTTGGAGAGCATG
CTTGGAACATTTTTGTGACATACACTCTTGAGGTTTTCCTTCTAAATTTCTTTTCATCACTCATTTTGACTTTCAGATT
TCTTAAATATTTGTTATTACGTGTATCTTTGTAAATAAAAGTGAGGCTTAAGAAGTTTGACTTTGTTTTAGGATGGAAC
CTTGTTAAAAGTACAAGCACACATGTGTTGACAGCAGCTAGAGGAAGCGTGATAGTGTGGAAAGAAACAGAAGTCCAAA
GACCTAGGGGTACATCAAGTTCCATTATTTAATTGTCATCTTTGTCTTTGCTACTGAAAGTATGGTCCACAGACCATTT
GCATCAGCATTGCCAGGGAGCTGGTTAGAAGGGAGAATCTCAGGCCCCTTCTAGACTTACTGGATCAGAGCCCGCATTT
TGGCAACATTACCAGGAACTCATATACACACTCAAATTTGCCAGGCTCTGAACTCTATAATCTCCAGCATTCTGATTTC
TCCAAGTCCCTCCTTTCTCATCTTTGAAACAGAGTAATTTCTACCTCACAAGTCTAGTCGAGAATTAAATACAAACATG
TAAAGCTGCTGTGTTCGGTGCCTGGCATACATGGCTGTCCCCCATTCCTGCCAACACACACCTTCAAGCAAGACAACTT
GAGAGAGGCTGAGTGGGAGAGAGGGTGAATAAATGTTAATAACTCACATTAGAGTTGGCATTTTTTTTCTTTTTACTTG
TCTCTATTATATAGGGTGACTGTATTAATTGTGCAATACCTTTGCTTTTAAATAATACTACTGGGATAAAAGTGAGATT
CTAATCTCACATATTATTTCAAGATAAGATTCAGATACAGAGTTTTAAAGAACCACCTATAAAAATCAAATCCACATAA
ATTCAGAGGAAAATATCCTCAATGCTTATATAATATTGGATGTTTAGGGTGATACCCTCTAAGCACAACTTCAAAGGAA
GAAATCATTAGGGAAAATACTGACATATTTGAGTACATATATGTTTTAAAATTTAATTTACTTGAAAAGGAATGAAGAT
AATTAAAAAGGAAGTCACAAATTGAAAAAAATTATATGCATAGACAAAGAGTTGATAAATTTAACATAGAAACAGGTTT
TACAAGACAATAAAAGGATAAATGTAATGATTTTCAATAGATATAAGACATTAATAGGTGGGCATGTAAAAAATGTCAA
GATAACATGAAAAAATTAGTTTTACTACTCATAAAAGACATGCAAGTGAAAACAACCAAGATGCCATCTCCAGTCTATC
AGATTTCTCTAAAAATGAGAAAGCGCTCATAACCAGTGAAGGAGAAAAGGATCTGCTTTCATCTTGGTTAAGATATACA
TTGCAACAATATTTATGGGAAATTCTTTGGCTATATCTATCACTATGAATTTATGCATACATTTTTCACCCAATAATTA
TACTTTTGAGAAGTTATCCTAAGGAATTAATCTAAAACTGAAATGATACATGTTCAAAATTTTCATTAAAGAAAACCAC
CAAACTGTACCATAATGGGAACTATTCATAAATATGTAAATTATGTCCATATGATAGAATACTAGGCACCCATTAAATC
ATGTTGTAAACAATATTTTTATTGAATTTTTTAATTGAAACCAAAAAAGAGCAAGATAAACTCAGTATACATAGCATGT
CATTTTTGCAAATGTGTATGCAAATGTGTAACATGTATATTTTTAAGATTGGAAGCTGGTACACTAAAAGTGAATGTTA
ATTCTGGGTTATGTTTTTCCCAAATTTTTGCCTGTTTCTGCCCTGCCTCTTTGATTTTAACATTGAGCATACATTTATA
GTTTAAAGACTGTTAAAAGTGGCACTTAGATATAGCTTAAAAATAATTTTAATAGCACAGGGAAATTATTTTATTAATG
CTAGTTAAATTAGACGAAAATATAAAATTTTAATGGCAGAAATATTTCAATTTATAACATATGCATAGGAAACTGAAAA
GAGTAGTTAGCTCTAAATATGGGGATTATGGATAAATTTTATATTCTTCACTTTTTTATTTCAAAATTTTTATAATTAG
CTTTAGGATTTTTATAACCAGAACAAATTACATTTAAGACTCCCTTCTAAACTTATTTGCTTATTTTCAATCTCAAATT
GTGAATTTGTATGGCCTCTATATTTCCAATCTAATTTTACAGACATTAAATTTCTCTTGAAATTCAGTGAAAAATTAGC
AGAGTCGAAGTTACACTTCTGTATGGCATTTAAATTCCTCCTCCCAGAATACAGCCACTGTTCTACAGTACAGAGGAGT
CCTTCATATCACGATTTTCATTGTGTCTAAGAGGCATGTGTTTCCACTTTGTCATTATTTGGTCTAAAAGGATTTTTCT

Fig. 6.164

TCTATTTTGCTGCTGTTTTTGTACAAGACATATAAAGAAAGGTGTTAAGGGAGTGTTAAATATAATCAAGGTGTTAAGG
AGAAGAGCCCAGAGAGAGAACTCTTAATCTTTTCATCTGGTCCAGTTGTCAAAGTCTTTTGTCTTTAGCCATCACTTTT
TTAATCAGAGACATATAATCTATTAACTATGGGAACAAGAACCACAGATTTAGCCTGTGCTTATCTGGAAACCTCCCCT
AAAATACTACTGAACGACTCTTTTTTTTTTTATTCCTGTCTCTTTTTCTGTTGCAAACTGATTGTCCACTATAACCTGG
AGAGGGGACTCAATTTTTAGAAACTGTCTTATACACCTCTTAATTAGTTACCTATTGCTGCATATACCCAAAATTTAGC
AGCTTAAAACAATAATGAAATTTTATTATGCCCACAGTTTCTTTAGGTCTGTAGTAATTTAAGAGAAACTTAGCTGGGT
GATTATAGCTGACTCTCTCATGATATTACAGTCATATACATCAGGACTGCATTCTTCTGAATACTTGACTAGAGCTGGA
AGATTCACTTCCAAGATGGCTCCCTCACATGGCTGGCACATTAGTGCCTGCTGTTGGGGGGAGACTTCAATTCTTTGTT
GGGTGGTCTTCTCCATGGGGCAGCTTAAGGATCTTCATGGTTTGTGGGCTGTTTCACAAAGTGTGCGTGATCCATAGGA
GATTAAGGTGGAAGCTGCAATGTCTTTTATGATAGAGCCTCAAAAGTCACACAATGTCATTCCCAACGTATCCTTTTTT
TCACATAGGTCAGCCCTACGCAATGTGAGAGTGAGGAAGGGACTACAGAAAAGAATGAATTCCCAGAGATGAGTAGGAT
CATATTGGGTGCCATCTTGGAGGCTGGCTACCAGTGAAGAAGACTGCTTTCTGGCCCTCAGTGATTTACTTCCATCTCA
CATGCAAAACATACTCCCTTTATTGTGGTTCCCAAGAGTCTCATTCTATTATGGCATCAGCTCGAAGTCCAAGATCTTA
TCATCTAAGCCAGGTGTACTAGTTTTCTTTGCTGTCTAACAAATAATTTAAAAAATGTAGCAGCTTAAGATAACACCCA
TTTACATGTCACACCTCTGTAGGTCAGAAGTGTGGGCAAAGGGTAGCTGGGTTCTTAGCTCGAGGTTGAAACCAAGGTG
TTAGCCATGGCTGCGGTCCTTATGTGGAGCTGAGGGTTCTCTTTCAAGCTCATCCAGGTTGTTGGCAGAATTCAGTCAC
TTGTGACTGACAGACTGGTGTTCCTAGAGACCACCTGCCATTCTGTACTGCGTAACCCTCTTCACAATATGGCAGTTTA
CTCCTTCAAGGCCAACAGAAGAATCTTCCTACTGCTTGGGTTCTCTGACTTCATTTGACCCTGACCTCTAAACCCAGAT
TTAAAGGTTTTATATGATTATATCTGGCCCACCAGCAAAATAGTCCTTTTTATTAACTCAAAGCCAGCTGTTTAGTAAC
CTTAATTATATCTGAAAAAAACAGAATCAAAGGAGTGGTATCTCGTAGTATTCACAGATTCTATCCACACTTCAGAAGT
GGAAATTACACAAGGCCTGAACATGAGGAGATGGGAATCTTAGAATCTGTCTAACATACCAGGTCTATGTGCAAATAAG
ATCAATCTCTGTTAGTTTACTCTTATGGGGTAATTAATTACCCCAAAACTTAGTGGCTTAAAACAATAGCATAACTAAC
TTCTCAGTTTCTATGGGTCAAGAATTCAGAAGCATCTTTCTTCAGTGGTTATGGCTTTGGCACTCATATGAAGTTGCAG
TTAAGAAGTCAGTCAGGGTGATAGAAATATAAAGGCTTGACTGGGGCTGGAGGATGTGCTTCTAAGGTGATTTACTCAC
ATGATCAAGTTGGTATTGGCTGTTGCAGGCAGGTCTCATTTCTTCCGCAAATGAAATGCTCTCCAGGCTGCATGAGTGT
CTTCATAACATGGTTGCTGATTTACATTGGATGGAGAGATCAAAGAGGATGAGAGGAAAGCAGCAATGTGTTATAGGAC
CCAACTTCAAAAGTTACACATCATTGCTTCTGCCCTATTCTGTTGGGCAATCCTGATGCAATATAGGAGGCACCATGAA
TAGCAGGAGGCAAATATCATCTGGGCTTTCTTGTTAACCTCAGTTAACAACAACAAAACAAATATTTAAAAAACTAAAG
GAAAGAGATTTCTGGAATATTTCCATTCTCTGTCATGCCCACTGCCATAGTCTACTCAAGTTCTCATCTCCTATTGGAC
CTCTGCGGTAGCTTTATAAGTCCTGTCCTTGTTTCCAATGTCATCCCTTTCAAAACGCTTCAAATAGCCTCCTTAAAGC
CATGACTCCTCCCACGGTTATAACCCTGCAGGTAAAGGCACTTGAGGACATAATCTGTACCATCTCTGGCGTCATCCCT
TTCATTCCCCTTCACCTCCCCCAACTATTTTTGTATTTCAGTCATGCTGGACCTCTTAATGTTTCCCCAAAACATCCTA
AGCAATTTCACGTCTCTATGCCTTTTCTTTTCCTGTTCTCTTTGCCTGAAATAAGAACGACAGATAATAGTGACTATGC
AAGTCCTAAAATCGAGGCAGCCACAGTGCTAAATCACACATTGGATAGTTCAATTTTATTCTTATAACAACCCTTTGTG
GTAAATCTTATTACCATGCTCATTTTACAAATGGGCACTCCTAACCCGATGTGCATAATGATTAAAAACATAGACTCAA
GAAAAGTTTGGAGGTTCTGGCGTAACCCTCTTTGTTATTCTCTATGCAACTAGCTTAAAAATAACAACTTTGATTATTC
TAATCTATTAACCAGTTTTCAGTGTGTCTGACCAAATCAGTTGAATTTTATTTTTTTAAATATGTGTGTGTGTGCATGT
GTCAGTATGTACGTGTTAAAGAGTAGAGGGAGGAAGTTGAAAATCTGACATTTGATTTATTTCTCCTGGGACAAAGGAA
GTTTGGATATGTCAAACTGCTGGCTAATCAACACGTTAATCAATGCAAATCTCTAGTATGGATATAGTTATATTTTGCC
CCCCTCTTCCTTTCCAAACTTCTTTCCAGTCTCATGACCAGCTTATTGGCTTCATATTACCAAGTAAATATATCAACTG
CCCATATGTATAGTACCCAGACAATGAGAACACTGCCTAAATATTGTGTTTTCAATACTACTTGCTTTTAGCAACAAAT
CATAGCACCCAGCCTAACTTTAAAAATTCCATGTCATCCAACTTCAAACTATAACAAAAATTGAGTTTTACAGAAGAGT
TTCAAAACATTTTTATGCATTAGACACTTCAGAAATTATCTCTTAAAAACAAAACAAAATAAATAAGGGACAAAAACAA
TAGAAAACGTCAGGCACCAAACTGTGAACTCTCTTTTGTCCATGTATGATTTAAAAAAAAAAAACTCACTGATGGTAAT
TTAAGAAATTTGACCTTTAGGAAAATCAGGCTGAGGCTCATCTTTGTACTTTTTAAAACAAGTCAATAAAACATATAAA
TAATAGAGATGAGTGCCGCTCACAGGGGACACTCATATTTTCTAGGAGCCTGTGGATATAAACAATGAATTTCATGAAC
ACAGAGCACATTTCTACATGATCTCCTTTTCTTTACAAGTTATTTATGTTTTACTGGAAATATTAAAACTTCATGTCTC
TTTGTTGCTCTTGTTTCTTTAAATTTTTATTTTTATCATCAGTCATTGTTCAATAACTCAAAATCATATAAAATAAAAC
AGTTTCAACATCATTCCGTACTCAAGATGATCTCTATTAAATAATGATTTTTTTCTTGAAAAAGCATTCTATAATTTTT
TTTAGTTTTCCAGATGACTATTTAAACCAAATGTTTAAATGAATGATTAATGAGTCTTTTATCTTATTTATCCCACCTG
CCTACTGCAAAAAGACATGAATTTAATACATTTTAGATTTTAAACAGTTGTATATCTGTAAAAAAACAATTTTTACAGG
TTTCATATTCTGGACACTAGAAAACACTTCCTCCTCACAGCGCCGAGTTGTATGAAAAGGCAGCTCAATTGTCTTTCCT
TGAGCAGCCTTGTGTGCCTGGGTATTCCCTTCCATCTCTCACCCATGGAGTTCATATTCCTGTTGTCATGTCACCACCT
CTGTCAACGAAATAGGTTCTGCCATTTCTCAAATTTTATGGAGAATTATCCTGATGAGTTAAGGCAGAGGTTGAAAACT
TGCAGCCCTTACCCCGGTTACGGATTTTATTTTTAAAACCCAGTGTTTTTGAACACTTTACAGCTGATATTTCTATTCT
AATGGATGCATTATCTTCTTTTAAAAATACTTCCTATATTAGCCCTCTTAAGGGGTATGAAGTGGTGTCTCATTGTAGT
TTTGATGTGCTTTACTCACTCTTAATACCGTTATTATAGGTTATTTATTGTTAAAACTGTGATATATTTTCCTTTATTT
TCTACATATACATAGATAACATGCAGTTTGATAATCTGCATTTAATCGCATTAGAAAGGTATTTTGCTATGTCATTAAA
ATTTTTTTGTGAACATCATTTTTAGTGGCTGCAAAAACTTACATAAAGACAGACATGTCCTAATATATGTGTGTGTATA
TTTTAACTAAATATTGGCACACCAAAAAATAATGGATTTAATGCAACTAGCAATGATAATGCTCAAACAACAGGAGTGCT

Fig. 6.165

ATGAAGACAATGAAACAGGTGAGTTGTCAGAACACCTTCTGTCATTACATTAACTTTTTTAAGCACTAAATTCACTTGA
AATTACAATAAACAAGATAAGTACAAGCATTAGATAATTTGACCTATCAGATATCCCAAAGGCATAAACTATCACTAGA
GGGTCTTTTCTTTATGCAATTAGGTGACCAGTGACTCTTATTTTTTAAAGCTTTTAAAATAAAAAAATAGCTTTAGGGA
TAAAACCAGCCAGATTTTTATCGTCAAAAACATGTTCACAGTTCAGCTAAGCCTTGCTTTCTTTTGAAGAATTGCTCTT
TATAATGCTCACCAATGGATTTAGAAATATCCCATTGTAATCATGAAGATCTCAATTATATGTTATGAAATAAGAAACA
TAATGAAATACTTGAACCTTCCTGCCCCGCATAGCAGATATATTTTTGTATTTATGATATTCACAGTAAAAAAGCTGTG
CTGAGAAGCTCAAAATAGTATTTGATCTTAGTGGTTTTGGAGCAGAGGAATTGGCATTGCCATGATTTTTCTATAACTT
GGCGCAGGCCAATGGTTTCAGGCAGGACTTTCAGAGCAGACTTCTGTCAAATTTGCCATATGGAGTTACTGGGCTCAGA
TTATAGAGGTTTTCCTGGTTGTTTGCCTAATTTGGGAATTATCAGTGCTCTCCAGGATTTTCTCCAAAAACAAAGAACA
TGTTCAGAAGAAACTGACACTTCAGGAAGAAAAGTAGTTTGATATTTGAGAGGTTTAGATGGTTTCTAATATTTCTAAA
AGGTACCATGACTCGTGAAGAATTTGACTGGTAAAAAAGAAAGGTTCCTGTTATCCCTGGAACACAGCTAACAGTCTGG
CATGTAGCCTTACCTGAACTGGTACCCTCCCCGTACACCTCACACTTAGCATTCTGCACAGCCAAAGACCCTGTCAGTT
ATTGGCCAGCCTGAAGAATGAGGTTGAATTCAACTCAGGGACTGAAATCTACTTTATAGCATTTTAAAATATTGTAGAT
CCAACCTTGAGTTGACCTACTCCGCAGGTTCATGGGTGATTAGGTGTGAGATACAATGGGAATGAATATCTGAAAACCC
TTTGCAGAAGAGAAGGAGGAGGAGGAAGAATAAATCCAATTTTTACAGGTTTCATATTCTGGACACTAGAAAACACTTC
CTCCTCACAGCGCCGAGTTGTATGAAAAGGCAGCTCAATTGTCTTTCCTTGAGCAGCCTTGTGTGCCTGGGTATTCCCT
TCCATCTCTCACCCATGGAGTTCATATTCCTGTTCTCATGTCACCACCTCTGTCAACGAAATAGGCTCTGCCATTTCTC
AAATTTTATGGAGAATTATCCTGATGAGTTAAGGCAGAGGTTGAAAACTCGCAGCCCTTGCTCCAATTACAGATTTTAT
TTTTAAAACCCAGTGTTTTTTAAAAAATCGAGGGAGTTTACACAAAAATTCATGTTTTCTGTTTCTCTAGAAAACAGCA
AATCTGGCAACACCCTGCTCACATTCCCACCTACCAAGAATGCTGCACATTAAATGGTGGCTTTTCTTTAGGTGACTCT
AATTCACTGGGGTCTCCATGTGACGTTTCAGCCTTTGCACCCTACTTGTCCGCTGCAGGCCCAGGAGCTCTCTACTCCT
CATATGCATTACAGGACCCCATGCACATTGAAGATGTTTTCTCAGGCAGAGCAGACACCAGGCAAATATCTTCTGGTCT
TAGGAGCAAGTCTTCTGAGAATCAATGATGACAAATATCTTAAATGGTCTACTCGATGGTTCTGAAAATGTAAGAGCTA
AACTACCTGTATCAAAATCATCTTGGGGGCTTATTTAAAACATATATGATAAGGCCCCACCTCAAACCTAAGGAGTCAG
AATTTCTACGGAAAGGCTTGGGAATAGGAACATTAACACAAGCATCCCGGGTGGTTTTTATGAAACAAAGCTTGAGAAT
TATTGAATTCTTCTCCGATCTGACAGCTCTTCTCCTGGGCAGACCCAATTAGAGGGAACTGATGAGTTTTAGGAAATAC
TGTAATTCTAACTCATCAGTCCAGCAGTGCTGAAAATGCAGAATTTTGTCCTTATCAAAAGCCAATTAATGCTAACCTT
TTCAGTGTGTGTCCAGTACCACCATCGGTAAGGTAAATAAACAGGCAGTTTTGCATATAATCTAGTGATTTTTAATTTA
GTTTTTTCCCTTACTCATCCTAAAAAAAGCAGGGAGTCATTGGGCTTTTGTATCTATTTTAGCTGAGTTATTATTTTAA
CCCCTATCTTTAGTGCAGAATTAAAATATCACCCTTCTATTTGCTTTTATTCCTAATATCTGAATGGTTTCAGCTTGAC
GCAATTAGCATGTAGAGCATGCTCACCTACTGTAATCTCCCAGATGAGTCACTCAGCTCCAGCACATAACTGCTTCTGG
GATCCTGTTGGCTAACCAGGCTTTGAAACCCAGGGAAAAGAACTGTGTGTTTTCTTCAGAAGTAATCCATAAATGAGAA
ATTACCATAAATAGGCAGTTTTATTCACTCTAAGTGATTTTTACATAAAAACTGACAAGGCCGTAAATTGTATATAGAA
TCAGGTTCCATATCCACACAGCTAATGCACACATGAATTATTCGATGAAATTTGCTTCAGTAGTATTATCTGAAATTGG
TTTCAGACAATACATTAAATGTTACACATTATGGTAAATTTACTGTATTTTTGTTCCAGCCACGTCTTGTGTTGGCAAA
TCTGCTAAATTTAAGTTTGCATTGTATTCACATGTGTTGCTATTTCCTGAGATGTCCCAATATATTTTAGCCATCAAAC
AAATAGAACTTCACCTCTCTGAGGCTCAGTATCCACACTTGTTTATCATGCAAGAGACATGCAGGTGAGAAAATAGGCA
ACTGCCATTCTATCTGTGATTGCTGTTCATGGAAGAAGTAAAAATGAGCTGGGACAATATATAGGTGGCGCCAGGGATG
GCTCCTTGAAGGAAGTGATCTCACAGCTCAGACCTGAAAGCTGAGTGGAAGTTACCAGAGGAAAAGAGAAAGGGAATGC
ATTGGTTTTCTATTGCTGGGTCAGAAACTACCACTAACTCAGTGGCTTAAAGCACCATTCATTATCTCATGTTTTCCCT
GGGTCAGGAGTCAGGTGCGTATCAGAGTCTCAAGAGGCTGACATCAGGTGTTTGCAGATGGCATTCATGTCTGGGGCTC
AGGGTCCTCTTTCAAGCTCCTTCAAGTTGTTGGCAGAATTTAGTTGCTGTGGTTTTAGGACCGAGGTTCCCACTTTCTT
GCTGATCACCAGCCTGGGGCAGCTCTCAGCCCCTTGAGGCCACCTGCAGTTCCTCATCCTTTGGCAGATCCTCTCACAA
CGTGGCCACTTACTTCAAGACCAGCAAGAGAATGTTCCTCTTCAGGAAGGGCCCAACTCCTCCTTATGGATGTTCTTCT
GATTCAGTCAGGCCCACCCAAAATAATTGCCATTTTTGGTTAACTCAAAAATCAACTGATTTGAGATCCTTAATTACAT
CAGCAAAATCCCTCCACCTTCTCCATACATAATAACCTAATCATGGGAGTGACTGTTCATCCTGTTCGTGATTAGGCTC
ACATATAAGAGAAGGAGATCATATAGGACATGCATGTAGAGGATAGAATCTTGGGGGCCATCTTAAAATTGTGCCTACC
ACAAGGAAGGATTTTCCAGGCAGGAAGAACCAGATATATGAAGGAGGCCTAAATGACAGGATAGCAATTTCCAGTGTCT
GAGGCTAAGGCTGGAATGCTGACCTGGCCAGATCATGCACTGCTAGGTTTAATGGCCTATGCATACTCTATTATGCAAT
TATTAAAATACCTGTTTACAAAGAATATTTGAAATATTAAAAAATGGAAAACTGCATACCGTAAAATATTAAATGGGAA
AATCAGGATATGTGTTTATATAACATAGTATCAGTTTTGGAAATATATATGCATATCTTAAAAGACTAGAAGTAAATAC
ATCCATCTGTTAGCCATGGATATCTCTGGGTGAGAAAGTATGGATGAGTTAGAGATTCTTTGTCCCTTTTCTTAGTTCT
AAAATTTGCCACAATAAATATGTATTCTCTTATAATAATAATTAATTAAAAACCTATTCATGGTACTTGCAAAAACAAA
TGAATTTGAGCAGTCTCTTTGAAGGAATCAAATTTTGTACTCCAGGTGTTTGAGAGGTTGAAAAACAAGCTCAGGAATT
AGCTGCGCATGATCTGTACAAACAAGGGGATCAGTCAGTGGAAATGAAGTCCAGCTTCAGCCAAGGGTGGTGAGTATAA
CAGACCTACTCTGATATGTTTCATCACTAAACATTGAGCAAGAAATCTAGTGTTTAAATTATGGAGGCATTAAAGCAAT
TAACCTCCCTCTACCTCAATTTTCTTATATCTAAAAATTGAGGGGAGCAAAATTCCATTCTTGTCACAGGTCTCAATTG
CAAGTAGCATGCAAGCAAGTAGGCTGAACTCTTGTCTGTCAATCTAGCTCCTTCCTGGATGGGGTATTTAATCAGCTCT
CCTTCCCAAGCACCCAGTGGACTTGAAGCTCACAGTTAGACAGAGATGGCTAGAGGTGCCAAGTGCTGTTTATCATAGG
TGACATCACCTGTGTGCTCAGAGTTATAAACATAGGCAGCTTGCCTACTGCCAAATCCATTACAACTTTCAGAGGTGTT

Fig. 6.166

CACTTAGGAAGAGGAGGAAAGAGTTTTTTGAGAACCAGATGGGAACTTAGAAATAAGTAACATTGACAACCAAATCCTT
CAGACACATCTTCAAGTTTCAAGAGAGCAGTTAACAAAAAAGAAAAATGTATTTTTAGAAATTGTTTGGGAGGTGAAAG
GATTTTTCTGGGGGGGAGTAGGGTAGGGAATGGATAGAGATGATTTTTTTTTGGCTCTGCAATATCTCAGAGATCTTTG
AGTTGAAATATAACAAAATGTATTTCCTCTCTCTTGCTCCAAAAACTGAAAAGCAAGTGCACTAGAAAATGTCAGAGTT
GGCCACTGAACAGACCATATTTCTAATTCATGGCAAGATGGCTAAAATAAAAATTCTTGAAATACGTATTTTAAAATTA
GATTTTGACCTTTGATAGGGCTTATCATGCTATTTATATTGTAGCAGAAGGAACTGATTTTTTAGTAGTTGCCTCATCA
AAGACATGACTCACATTTCCTTAAGCATTTACACCATATGTTTCCTGAGGTAAAAAAATAAATAAATAAATTTTATATT
TTTTATACAATTAGTGAAATGTGAGCAAAAAATATAAGAAATCATTTAAAAAATATTTTGGGGAGGATGTGGTCTAGAA
ATGTTGTTTTCTAGAAATTGAAATTATGTTAGCTATTTGGCCAGTGTAGCCATTAGGTACATTTATGAATATAGATGAG
AAGTAATCATTGTGATGCTAGTTTTATCATTAAGGAAAAAAGCAGAATTCAAAAGTTTAGCAATGAAACACTGGTACTA
CTGAAACTCACTTTATATTTGAAAATGTGAATGTGAGTTTAAAAAAGCTTTTGTTAGACTAACTGAAAAGAATCATTTT
AACATTTAAAAAGAAAAATATTATTTAAGTGACATTTGGTGACATTATTATATGTGTACAAGCTGTGACTATAAGATA
ATGAGACAAATTATTATGTGGCCAGTGGAAATTAAATTTATCTTTATGATTACTAGCAACAGGGACTATTTTATTCAAC
TATCTTTACATAATACAAAATTATTGTAAAATTTCTAGGAAATTCATATTCCACTTAAAATATGAGGAAGTACATTTGG
AAAAAATATTAACATATGAAAATCAGCATCCCAGTTAAGGAATCCCCAGTTTCCCACTTGGTGCTCAAATCACTTCACG
TTTTATTTCATTGGTACTTTTTCTAGGGCAGTAGATTTAGGAATAGAAAACAGACTCTACACATGGAATACACTAAAGT
CTTGAGGAGGTGTGATATTTCCCTAAGTTTGGATAGGTGGTATCATCCTTTCAGTCACTCTTGACTCTGCATTAGACTC
TCTACCTAATGATCCCCAAGTCATTTCACTTCTGCCTTCTTAACATTTTGAAGATGTCCTCTAAAATTTCAAGTCCCAC
CATCTCTGCCTCCGAACTCACCTCCCTGACTTTCAGTCTTGAAGCACCTTAACAACCCCTCCCCTCCTGTGCATGTTCC
ACCTGGAAACCAGGGTGATCACTCTGAAATGCCAATCTGATCAGTCATTTCCCTACTTTTGAACCTTCAATAACTTCCT
AGCACCTATTCCTAGAAACCATTCCAACATATCACCTAGGCAAAGGAAACCCTTTTCTTACCTGGCTCCTACTTATCCC
TCCAGATTCACCTTTTGACACCTCCCACTTCATCTCTCTGCAGCCCCCTTCCTGCACACACACGGAGTTTCAGTCTTGC
CAAACTCTTCGCAGCTTCTTGAGTGGACCTTGCTCTCTGCACTACAATCTCTTTCTGCCTAGAGAGTCCTTTACCTCCC
CCAATCTGGTTAACTTCTACTGTTTATTTAAGTCTTAACTCTAAGTAGATGTCATTTTTGAGGATGCTCTCTCTGTTCC
CACTTTGGAACTTGGGCTTCTCTGTTGTCCTGGGTGTCCCGTGTATTCCTCTGTCATAGCCCTCATCTCATTGAATTGT
AATCATGTCTTCACTAGTGTTTCCTTTCTAGCATGATAGATTTTTGTATTGCCAGTGACCCCAACAAATTCCCCAGGTC
CTAGCCCTGTGACTGGAACACAGTAGGCATTTAATAATAGTTGACAAATGAGTTAGTATATGTAATGAAAAATCTACCT
GCCTGAGCATTAGGAAATATAAAATTAATCTAAACTTTGCCACTTTCTGTAATATCTGTGTGTCAGTCAGGAATGCTTT
TGGCTGCAAGAAAACCCCACTGACAGTCTTTTAAAACAAATAAGGAAGTCTAAAAGGAGTCAGATGCTGGCCTTGGTTC
AATACAATGTTAGAGGCAGCATCTCAGTGCTTCTCTAATGGTCACAAAATGACTACAGTAACTCCTTCCCTCACATCCA
CTTCCAGTTCAAGAAGCAGAATGAGAGACAGCAATAGCCACCCTGTTTCTTCATCAAGAAAGCAAAGATATCTTAGAAG
TCCCCACTGTCCTTCATTTACTTCTCATGGGCTAGAATTATCTCAGTGGCCACCCCAAGTGCAAGAGAAACTAGGGAAA
TTAGTTTTTAGCATTCCCACACTCTATGTTGAAAATGAGTAAGAGACAATAATTTGGGGAATAGGTGTGGGATTAGTCA
GCCAACAGTGTTTGCTACACCTTGSGACAAAACATTTTACCTCTCTTACTCTTTGATTCTTTCATTGAGTGAAGAATTA
GAATAAGTAATCTTTCTTCAAGAATCAATTTTCTCTCATCTATAACTCCCATATATTCTTATTTCCAAAATGGAATTAC
CTTCTACACCAGACAGTTACTTCAAGCTTTTCCCCTGAATATTTCACATTTCCAGAAAGCACTATATTACAAAGAAGCC
CTTCCTTTTCAAGAACTCTATTTGCCATAATGTTCTCCCTAACAAGGGCTGAACAGTACGTGCCCAGATTCCCTGCCTC
TGACCTCACCACACCCTCTTCTGTGTGGCGGTCTCTCAAATTGTTTAGGACAATTATCATGACTTCTCTAAATCTCCCT
TTTTCCAGGCTCAAATTCCCTATGCTTCAGTAGTTTTTCAGATAAGCCCCTTCTGTCCCTTCACAACCCTGGTCAGCCA
ACACCAGACATACTCTCTTCATTTACTTATGATTCATTGAACAGATAATCACTGAGTTCCTGCCATGTGTCAGCACTGC
TCTAGGAGCTGGTGATATGGTGAGAAACAAGGAAGGGAAGGCCCCTCCTCTCATGAGGCTTACAGAGGAGCAAAGGAAT
CAGATGATAAGATAAGCGTTACACACACACACACACACACAGAGGATCATTTCAGAGAGTGATTCGTGCCAAGATGAAAAT
GACAAAGGGAGATAGGAGAGTGACAAGGGATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGGCAGTGCACGTGTGA
AACTAGAAGACAAGCCTTCAGATGATCAGGGAGGTTTCTCTAAGACCTGAATGGGGATAATTAACTAGCATGGAAGAGG
AAGAGGTTTTGAAGCAGGAGGACTTTGTAAGTGAAAGGCCCTGGGTAGAATGAGCTAGACCTGAGCCAGGAAAAAAAAG
ATGCTCAGAGGGGGAAAGTGTTGGAAGATGGCCTGATAATGCACATGGGGAGCCCCCCACCACAAGCTCATGTAGGACA
GGACAAGAACTCAGATTGTATTCTAAATGACAGTATTTCAATACCCATCTTAAAATGTGTCTGGACAAAACTTAACACT
TAGCTACACATATAGCCTGACTGGAGCAGTCCAGTTTATAACCTCTCCTTGTAGTGGGCACTGTATTTCTATGGATGCA
AGCTACAGTTATATGACTTTTGTGGAAGCCATGCTATCCCCACAGTTCCACTGTGATTTCCTATATGCTCTTTGATGCA
CACTGCTCACATGCATGAATATTACTTGCACAAAGAGAGAGAGAGTAGGTGGATGTGATGCCAGGAGCTATTAGAATGATT
CACATTACACTTCCACCATATGAAAAATAATGTACAGTCTAAAGCAACACTGCATCATATCATCGAGCAGCTTGGGAAA
GCCTAAATTACATATTTGAAGTTCAGTCAGTCATTGAAATTAGATAATCTGGATGGTCCTGAAAGTGTCTTTCTTGAGA
GCTTTCCTCCAAAAGCAAAATTGAATGGTAAGGAAAAAAATGAAGTACAACAAAAATGACAGCAAAAAACCTGAAAAAC
AAAAAACAAAAAACAAACAAACAAAAAACCCCAAAAACTGAGTAATATCAACCAGGCAGGAGTTGAAGGAGAGAAGCCC
AACTGTTGGTAGATAACTTGGGATGAGCCAATTAAATATTGGTCTTCTCTCTCTCAGAGGCCCTAATTGCATTCCCTCC
AGCAGCCACAGGCCTGGGGTTTTCCCCAGGCCTGTGGCATTCAGACATCAGAGCTGAGAACTCCAGTGACCACCAGGCT
GCATTTTAATGCTAAGCTGGGAGCATTGATACTCTCCAAGACAGCCTTGCAAGCTCCATCTTCCACTGACTCAACGTTC
AGTGGAACGTTCAGTGTGTTTCATCTGCTGTTCAGTCATGCAGGCAGCAGGGATCCTGAGGGCTCTCCTCCCCAATATG
GTACCAAGTTTTGATTCATCCTTTTCCTCTTCCCTATCAGCAGGTATTCTAGAAGACAGTTTTATGATGACATTCACAG
CTAGCATTAAAACCAGATAAAAATAAAACAGGATGTCAATAAAGAACTAATGATGTGTGTCTGTGTAAATGTATAATAA

Fig. 6.167

TAATAAAAAGAATAGACATCTGTTTGTCAAGGTACCATTTAAGGCCTTGGGGCTTTAAATGAAACTGCTTTATAAATGC
ACCAACATATGTGACTGTTTGCCTACGTCTTTCATCCATGAAAATTGCCCTGTAGACAGTTGCCTTTGAGGTGAAAAGC
ATTCTATAGGCACTAAATATTATGCTAGAACACCTCTAAGTGCTAATCTAACTACCTTCATGACGGAAGTTTCAGGAGA
ACAATTTAAGGGTCATGGAAAAAAAGTGTTAAACGAGTTGGTAATCTGACATTTCCTAAAAACTAGATTCAAAACCGAA
GGGAAAGTAGAGAGAGGAATCAAAACTAGCCTAGTAGGATGGAAGTAGGCCTCCCTCCTTGGAGGTGTGAAAATGCCTG
GAATAATTTAGGCAAGAATGCCAACTGTCAGTGATGACCTTGGTTTAGGGGCAGTTATAGCATGGTGGAAACACCCCTG
GACTGGAGATCCGGCATCCCTTATGGGGATATGAAAGAAATTTGGCAGGTCTCTTAACCTCTTTGACATTCCTTTCTTC
TTTGTTAGGTAAGAAGCTGGTGCTGGTTCAGTGTAATTTGAACTGTGTTCTGCATGACTGTAGGGTTCTGCTTAGTGCC
ACGTGGAGGTGGGGATGCCTTGGGTGAAGATGAAGGAGGTGTAGTAAGCAGGTGGGGCTCTGCACTCTTTTTACTCTCC
TTCTTCCAGTATCATCAGAACAACTCCACTTTTTTGTCTTTATACACTGAGTTATTTATAAAATCCTAGTTTTTTTAAG
TGTCAAACAATGCTTGATTATGAAATGATAGCATTATTCTAGCATTCTAACTAAAGTGTGTAAATTATAAACAACTATC
TTTAATGGTCAACAAATTGTCATCATTACTGAGCAGTGTTGTTAGTAACACCAAGTAATACAATTAATGAAATCCTTGA
AAGTAGAACCTATCAGTGAGCCATGCATACAACTGATAAGCTGTGGATAATGTATAGAAGAATGAGTTCATTTGGTAAT
TATTTGTACTTTTCAAAATATTGGTGAACTTTCATCTTTAAGGAGCAATGGTGTCCTAGTTATTCTTGCCACAACTGCA
TGGAAACTCTCGAATCTGTTAGTATGTCCTTGGGCACAAAAACAGTATTTTTTGGAACTGCTCAAAAATTATGTAGTTT
TGTAGACATTTAGGGAAAAATCTCATAATTTATGTTAAACACTCAGTTGTCTTGGTGTTGATTGAAAGCAAATAATACG
TGCTTAACATCCTGCTAGTTGCTGAGGGAGATTCATTCATCATTTTAGAAAATGTTTCTGGGCATCAGTCATATAATAA
ACACTTTCCCAGCACTTGGCTTCACAAAGGAACAAAACAGACAATGCACATTCCTGCCCTAGTGGAGCATATATTCTAG
ATGACAGACTGAACACCTAGACATATATGACAAGCTCTTTCTTGCAAGGAGAGTCCAGTTAGGAAAATGTCAACACCTA
AAACAGTTAAAGGCTAAGATAGCTTCTGTGGACACTAAGTGCTACATAGTAGTTCCAGAGGAGGCAGAGAGTTAGACCT
GGCTAGACACTGGACAGGGGGTAGAATTAGACAGATAGTTCCTGGCTTGGTGCCTGGTACATAGTAGTTGCTCAATAAA
TATGTGTTGAATAAATGAAAAACCAGGACTGACTGAATAGACAGTTTACACATTTACATAATAAGTGTGTAATTTAGGG
AAGTGGGGTTAGAATGAGCCTGGGTGAAGGAAGCCTTGAATGAGAGATGGAGAACTGTAAACGATAAAGGTTTTGAAGT
TGGGGAAAGGTGAGGGGGAAGTGAAGTGTAACATGGAGAAGCAAAAGTGTGAATATTTTCCAAGATGCCTCGACGTTAT
GATAGATGAACCTCTGAGACAGAATGTAGGGGGAAGATAGAGGAAAGAGCCAAAGAGCCTCTGAGGGTGCAAAGAAGTA
AAGAAAAACCAGGATGTATGATGAGAATTTTATTATGGAGCTATCCAGTGTGGATGTGACTTCTCTTCCCCATATCGAC
ACAAAACACTTAGCAAAACATTTCTCTTTCTCTCTCTCATGCTCTCCTGTTCTTTCTCCCTCTATCTCTATCTCCTTTT
GCTCTATCTCTAGATATCTATTAGACAGATGATAGATAGACAGATACATAGATAGATAGGTAGATAGATAGATAGGTAG
ATAGATGATAGATAGATAGATAGATAGATAGATAGATAGATAGATAGATACATCTTGGAAGTGGTAAGACAGAAAAAGTAGTG
AGTATAGCCTCAAAATGGCTGCAGGGCAAGGTAAGAAGCTGAGCTCAGCCTTCAATCCAATCCCTGTTTACACTCTGCC
TATTTATTTGTTTATAATATACTCTGACTCCCCATCGACATATTTACATTCTTGGTAGAAGAGATTATTTTTGATATCT
CTTTGTATTTATTTCTTAGCACCAAGATAATTTTAACCACTATTTTATTATTGTAAATTCTATTGTTTTTACTCCAAAG
AAATACATATTTGTTGAAGAAAAATTAGAGATACAGATAAGTTAGGAAAATAATAATATCAGAAAACAGGGCCATCATT
TAAAACATGGTTACATAAATAATAAAGTACTGTGCTAAGTATTGTAATGATGCTGATGCTTTTGTAATAATGATACTGA
TGGTGAAGATGGTGATGGTGATGATGATGACAATGATGAACACATACCTCCCACTGATTATGTGTAAGGCACTGTTCTA
AACCTTTGTCTAAATTAATGCATGAAGTCTTCACAACAGCCTCAATAGATGTTATTCTTCCTCCCTCCTATTTATTTTA
TTTTAGCATATTTTATAGATGAGGTATCTGAAACAGAGATAAGCAACCTGGCCTGAGTCATACAACACAAAGTGATGGA
GGTAGGAAATGACCCAGACGGTCAGGCTCCAGTTTTTTGGGCACTACCAAATTATATTAATAATACAACTCTGTAGCAG
CCTGCTTTCGAGTTATGGAATAGTTTCTAGAATAAGTCACACACATAGATTTCGAGCCCAGGACCATCTACTCTGAGCA
GAAGCTCCTACCTAACCTTGACTATAAACTGACTCTACCAGATAATCACACTTGGCCTTTCTGTAAGTGATAAGCAACT
TGCCTCTGTGGGCACCTACCCTGAGAAAGGTAGTCACCCTGCTCCATGCTCTGTTTCAAGTACATTTATTATTATTTAT
GAATTACTTATTAACATAAATTTATTATTATTTACGTATTATCCAACTTATTAAGTGATGTATATGTATGCAGGTGTGT
ATGATTATGAAATACAAGATGAAAGAACTGTAAGAAAATAGCTTTGAAAAAATTAGTAATGACTGGGCCATAGCCCAGT
GATAAGGCATGTTCACATATACCATTTCCTTTCATGATGGTAACAGCCCAGCAAGGTAACTGTCATCAGGGCTGTCATG
TATTCTAGTACTGTTTGTGTACTGAATAAAGGCATTTGCCTGAGGGATGATAGGGCTCAAATCCAGGCTGCACTCCTCT
TGATGATCTATGAACCCAAGAAGATGAGTCTACCTGGAGGGAAAGGCTTTTCCAATATGCACAAAGTTCCACAGAAGCT
AGAGTTGTCTTGGGAATGATTATCTCCATTTTGTAAATAAGGAAATTAAAGATCAGAAAGATTGAGTAATTTCTCAAGA
ATATGTATCCAGCAAATAACAAATCAAGGACTCAAACCTAGGCCAATATGGCTCTCACTTCCTTTCTCCAAAATCACTG
CTATGTCTTTCAACTAAATTGCATTGCTCTGTTCACTGGTACAAAGCTTGTTGCACCATTTAAAATTCAAGGACTATCT
GATTGTGTATTATATTTTTAGATCCTTTCCTGAAAGCAGGTTTTAATGGGGAGGGAGAAAGTAGCAACTGGAAGAGAGT
TTTGAGATGGTAGATGGTAAAATGTGCAAGCAAATTCCCAAAAAAATCTGGGGACACAGACTTCACTGCCTTCAGAATAA
TTGAAAGGAGAACCCCTTCAAGTATGAAGCTTCAGCTGAAATTTCAACGTGGTTTATTTACCTAATATGCTGTTCATTAA
TTACAAGCTATTAGTGACTATTAGCCTATGAAATTGTATTTACAGTTCAGAAATGTATTTGATTTTCACAAGCCTTACT
GGGGAACAATGCTCAGTCAACACTTTCTTCGCCTAAAGAGTACGATCAAAGAGCATGAAGCGTAGTAAATGTTTAGCCT
TTGAATTTGGAGTTTACAAAGGATAATTATCCACGGGTTGGTGAATTCATGTTCCTCTCTACTCCACACAGCCTCTGGT
TTGCATTTACAGTTTTGCACAATCAGATGTAAAATTAAAATATAATCATTCCATTTTAAATGGTTCCCTGTACAATTAT
CTCATTTTAAATCTTTTGCTAATGTGGTTATTCTAATGCAACTATGATCATTATTTTATGTATGTAAAGATGTCAATAC
TGTCCAGCTGATGATATTATCTAATAGTATGTAGCAAAGCATGTTCCCTTCCTACAGTGCCTCACTCTTTCGATGGGTA
AGATGGGAGGTGGGAGTGGGGGGAGCATGGCATTAGCTGTGGATAATAAAGCAAAGTAAGTACAATAGGTGTTCAATAA
AGTCATCATTTTTGGTACTTACGATGTAGTTTTCTTGTTCCTTTGGTTCCTTTTGCAGTGGGTGTATTTGCTTAGACAG

Fig. 6.168

AGAGAAGTGGCAGAGGGAGACTGCATTTGTATTTGGTTATTTCAGAGAAATGCAACTTGGTATTATGAGCCTTTAATTC
TGTAGGGCAGTCTCCAGATCATTTTGATGCTGAACTTTGTCATAAAAAACTATTGATTTTTTTCTTCCAATTATAAACA
TTTGCTGGTTTCTTGTCAGTTAATAACTGACATAACATTATTTCAGACCTTTCACTTAGGGCTCTGTTGTGTGTTTCTC
TTGATCAAAATTATTGCCTTAGCATATCAACTGAATACACAAGAGAAAAATCAAGTTATCTATGTTTATCATATGCATT
TTTGAATACCTATATGTGATGCTTGAGCATAGTGGTTTTWATAATCCTGTAAGCGATTTTTCAGGAGACCAGATCTGAC
CTCCTCTCTCACACCCCTTTCACACTGCCTGCAACACACCACACATACCACACACATCACCACCCTGACCGACCAATGG
AATCTGAGCCAACTATAAATCTCAAACTTGTTGATATTGGATAATGCCTGGAGGAGAAACACGGCTACCGTTCAGTAAT
TCCAGAAAGAATTTCTTCTTTAAACTCAGTAAACCCAATGGCTTCTCAGAAAGTTCTTTCTGAGTTTTCTTATTTGAAA
TTTGAAAATTATTTGAAATTGACTTAACTGACATCACCTGTTCCCCTCTGGATCTCCCAGTGATTTACTGTTGACTCTT
TCAAATCCACTCATCTCAGGGCTGGGGGACTGAGTCACAGTCTGCTTTTTCCTCCATTGTCATTTCCAAATTTTTCTTC
CCTCTCCTTGCTGGGGGCTGGTGCTAAGTTGACCCCATTTTTCCCTCCTTGTGCTGTCACTCACTGCCTTTCCAGAATC
TTCTGCATCAGGTCAGTCACTCTTTCCAACTTAATTCCATATGTCAACCCATTCATCACCGGAGCCACGTGGTTTCCTT
CACACAAATTGTCTTCTCTGCACCACAGATGCCAGTACACTCTGGCCCTTGCCATCTGTCCTTAAGATGCAACACCGGT
CTGCTTCCAAAATCCCTAGTTCAGACAGCCTGCCTTCCAGTTGCCACATCCTGTTTGTTTCCCAGTTTAACTATGTCAC
TGCCACTGCTGCTTCTACTTGTCAGACCTTCACTGACCTCTCCATTTCCCCCATCCCTCCATTTCATCCTTACGTTCCT
TCCGGCCCCCATCTCTGCTTCAAYGAATGAACCCGTTTTCATCTGTTTTTCCATGTTGGGATTCTAGTCAGATTTCCTT
GAAATTAAAGCTTTTTCTAGTATAAACACTCAGCCTGTCTCTCTCACTTTAAAAGTGAAGACATAGACACACAGAGAAG
TGAGATGATCTTTGTCCAATATTGATTAGTGGTGGAAGTCCCTTGATAGCCAATCCATATTTCTTTCACAGTAATAGAA
AGTACCAAACTTTAAAAATGAGATTAGAAGTTGCCTTTACATAAATGTTTAGGCTTTTGAKATCTCAGGGCTATTTTGT
AATACTCTAATTTTAGGAATCATTGTTACAATGTTTCAAATCTACTGACTTACACATATATATCCTACATATATTGTCT
AAACATATTCTGTAGAAGCAATGGGGATTCATGATTATGAAAAAAGTGGCCATTGCTGGTTTAGGCAGTGTGTAAATGT
TGCTACTGACATCCTAATGTGATTTTAATTCTTGCAGTCTGGTGTCATAAAATAGCTTTCAAAAAAGAGCATTTTGATC
ACGACTCATTTTCCAATTTCTCTCCTCCATGATCCCAACATCTTCCTAAGAAATCCACTCTGTACCTGAGTTTCCACAT
GGAACTTAGGACAATGATGTTAGTGAATTAGAGGTCTGGCAGAATCAAACGAAAGTAATCCTCACCAAGTCACTAAACC
ACACTACTTTGAGTCTATGCAAGTTCAGGAATTTCTATTTGAGCAAAAGCCACAAATGGCCAGAGCGGACCTCAGGCTT
TGTGCTTGAACTGCCTAATGCCATTTGATTTTTCGATCCCGCACTTTTCCTTGCCAGACCAATGGTCTTTTCTAGCAGT
AAAATTTCAGAATAGGTAGGCTACCATCACTCTTTGGGTTACCCCAGTGTTTACTTAAGTTGAAATTCAAATAGATATG
TATTTCTATATGAATGGCTGCCATTCTGCTATGCCCATGTTTCTGTTTCTCACTCATCTCTGGCTTGTCTCGTAGAGCC
CTTTCTGGTGCTGACTTATGTTGCTGAGTCAAAGGCTTTCATAGTCAAAGCTCTTCTTTTTATCTGATATGTTTTGCAG
TTTGCTGTACTGCGTCAACTCTACTGGGATCATATTTCTCTTGAGACTAACTACTAGGCAACCTGTGCCTTCTTCCTGC
ACTGCATTTTGCAAGTGCTTCTTAGGATTTCACTTTCATTTAAAGGCAGTAGATAGCTCAGAGAATGTGGAACAGTAAC
TAGAACAGATCCAAGAGCTGTAGAATCAAAGAAGAGTTAACTACTGTCTCTGAAACTTAGAATGTAACCAAAGTCAAGC
TATGCAACCTCACTAAGCCTGTTTTCCCATATTTAAAAGTGGATTGTAATGTTTATGAGTCTACCACTACATYAGATTG
GTGCAGTGATTACAGGAGACAGCGCATGTAAAACTCCTGGCATGGAGCCTGATGCATTTGAAACATTTACTACAAACTA
CCATTGTTGTTATCATTATTAAAAATAACCCATTCTTTCAAAGAATCTTGTTCTTGGCCACCAAGCTTGGAAGTCAGTG
ATATTGTTCATCTTATTTGCCCGGTTTTTTTTTTTTTTTTTTTTTTTTTGAGAATAATTTATGACCTCTGTGGCAGCAAG
TCTGGCCTCATCTTGACCATTCTATCTGCATGTACTAACTTTTCAATTTTAATGGCCCTGTGAGCTTTCCTCCCATAAG
CCAAAAAGTGCTGTTTTTCTATTCTAGTGTTTTCTTGTCAGGCAACAATAATTTCTAAATAACATGCCTCTTCTAAACC
AATCTCTTAAAAAATAGATTGTTTTGTTTCTGACCCTTTCTCATTCCATTTCAGAAACTATTTTTTCTCCTTCTTTAA
GCAGGTTACAAACCCTTATATTTTTAATATGCTGAGGCTTGTAGTCAAACCATTACTGTCCCAAAAGAAAAGCCCTTTT
AGCACATTTACAGCTTCTTGCTATCTGTGCCCTAACTAAATTGTGCTACAGGGATAGTTTCTTAACCATTAAAATGATA
GGTGAACACAATTTTATTTTGAAGGATTACTAAGCTATTTTTAAAATTTCTATAGTTAGAAAAGAAAAACTGTTTAACT
GAAACTTGAACCCAATTAAAATAACAATTCTCATGGCTCTCCGTTTTGCAATACTTTCCTATTCATAAAATAAGAATGT
GCACTTTACCTTTTTGACCCATATATTTGATGTTTTTCAATTCTCTACACGTTCTTTATCTCTCTGTCAGTGTGGAATA
TTCTGATTTGTTAATTAATACCCAAAGCAGCAGTTGGCTATTAATGAAATGTACAGAAAGGTATTTGGTAAAGGCTACA
TGAAGATGATGATGACAATAACAAAGATATCTGATTGAAAGTAATCTTTACCTGTTAATCTTCCCTTAATGTCTCCGAC
TACAATGGCAGACGTTGCTTTCTTGGATGATGACTGAAAGATTAGTTTGGAATGAATAAATTTATTTTTCCATGGTTGA
TTCATAGATTTTTTTAGAAATTACTAATTTTGAAAATTAAACCTTCTTTTTCAGCCTTTTGAGTTTTATGTTTCTATAG
TTTAGGCTTAAAAATAATGTAGACATTAGAAAAAAACTCAAGCGGTATTAATCCTTATATCCCTAATGGTAAAGAGCGA
GGCAGCTAACAAATGAGGTGCTGGAACACTAGCAAGGGAGCCTGTCTCTCTTCTGGTCCTTTTGTTGTCCAATTACAGG
TGAAAAGATGCTATCTGTCAGCTTGTCATTAACTCAAATACACAAAGGCCTGTCAGTTCTCTTATGCACTTGCCAATGT
GAGCACATCCCATATTGATGTTTCTACTAAGGCTTGCTGTACTTGTAAACAGTGTACTTGTCTGGTAACTAAATAGGGA
CAAGCATGCAGTAACAGTGTGACACTGAGCATTTCAGTTATATGTCTTCTTACCTCAGAATTTTAAGAAGAAACAATGC
TAAAGGAGATTTTTTTTTAAATTAAAAACAAAAACTACCTTTCCAGGGTATTTTAAAGAAAGAAGGTGAATTCCAATTG
CACATACATCCGGTATGTGTGACGCCAGGTTTATCCATGGCCTCTCTCGCCCTACTGCTTTTTAAGTAATATGGGAAAT
GCAAATAAACAAATAAAAACCTACTTAAATAGACTAGTAAAAAATTGAGCAATAAGGGATCATTGTATAATTAGATTAG
AATAGTGATTTTGCAAAGGGTTTTAAAATGCCTTAACATAGGCACTGACAAAATGTTTGTAGGTCTTACTAATGAATTT
TTATGTTTTTTCAATGGAATGTGCATTAGAATGAGGCCATTAGTTCTTTGTGGTTAACCAAAATCTCAAGATTTCTTGT
AATGAGAGTAACTTTTCTTTCTGGGATCCCTGACAAACCGGAAGAGAGTGCTGCTGAAATGTGGGAAAAACAGCTGTGT
TATAACAGGAGCTGCCARCCCCCCACACAGCTGGCTGCAGAGATAATTAATTGTGAAGAGAGTAAGGAAGTAATTCACA

Fig. 6.169

TAATTGTGTAAATGTTAAGTAATTTACATAATTGGGTATATATACAAATGGATTTCTTCCCTAAGCTATTTTTTTAAAT
ACAGAAAAATCTAATCTACAAGCAGTTGATTATTAAGGAACCAATTTTAAATAAACCAAAA..AAGTATCTATTCTAAT
GTGTGCTATTTTTCACAAAAAAAGTGTTTTCCTGTGACTGTATCCTGCATCCCTTGTTACAAGTGTGTGTGCATGTGTT
TGTGTGTGTGTGTGTGTGTGTGTGTAGATAAGTATATGATGTCTTTCTGGGACTATATGCTTAATCTCACTACAATTAC
TTTTGGGTTATTCCATCAGCAACACAAGTAAATCTCTCTAGATACTATTTATCTCAGGAGTGACAAATATGTGTTAAGA
ATGACTTCTATTACCCCTGCATTATAAGTTTATTTTTTCCAGTATTTTTTCCCCTTTGATTTGAGACTTAGCCTAGGC
ATCATTCCCAAAGAAGTGCTCCAGACAGCCGCCATGAATGAATCAGAACTGGCCCTTGGAAGGAGGCCTACCTGCCGGT
CCTCTAATGGACATAACTTACTTTTACCTCACAGTGTTACTCAGTGCTTTATCTACTAGGGCTCATGAGATGCAGTGTT
CATACTGTTTTGTTTCCAGAATCCCTGGGTGTGTTTTATTCCCTCAGTTGTATATAACAGGACGCACAATGGGGTCAGG
CCAATATTTTTTGGCTCTTAAAAGGACTCTTGCTGAGGTTTGCCAGTACCTGCTGATCTGCAGCTCCCCCAGCTTCATA
AGCAGTGATAGGAGTACTGAGTCAGCCCCAAATTAAAGAACCATGCATAGAACAATGCCCTGCAGCAGACTCGTAGGAC
AAATCTGAAAGAGCATCCCCAGACTCTTGAGGCATAGATACCTCCTGAAAATAAGGGTCTGCCTTCTATAGGTCATTAC
TTTGGAACATTTAATAAAGCATTACCAAAAAGAAAAAATACATGTATTTTATACCCTCACATTTCTTTTTAGTCATCTT
TAGTTTTGCTTACAGTCTGATTACCCCCTCACTCCCAAATCCTTAGCTCCTTACAAAAAGGAAAAAAATATTTTCTATA
ACATATATCTGGAAGTTTTAATTTTAGATTTATAGTTTCACATTTTCAAGCCAGTATTTTTCTAGTTCCATTTTGCTCT
ATTTCTAGATCATTTTTTCTCTCTCTTTTCTCTTAGGTTTTGAAATTGCTTTAGATCTTTAAAAAGCCATTCACCAGAT
TTTTTTTTAACTTGGCCTCAAATCATTTTTACTAAGTATTTTATTTGAGCCATCTTTTTTCTTTTTTCCATTTGTTTTG
TTACTTTTCTCTCCACCGACCCTCTGCTATCAGGCAAGCATTTATATTTCTATTAAGTATATAGTTTCTCCTAATCTC
TATAAACAATTATGTGAAAATAATAAGTTAACAAATACAATATGACCTCAATTAACTGTCTTAATACAAGTGGAAATGG
CAGAGATAATTCCAAGAGCCAATTTTTTATTTTAATGTGTTTTTCATATGTACATTTTAATGGGAGCTTTTATGATATT
ATTTTTCAGCCACACTATTTCAAAGAAAACAATGGAGGGCATTTTGTGGAGATCAAATTCTGGTTGAGCTGTTTGGACA
CCCAGCTGCCCATCCTTTCTCTAATGCTCCTCCCGAGCACCCAGCATCATCTCTCAGAATTAGACCTGAACTAGCCCTG
ACCTGAACTGATTCTTCTGTCCCTGGTCTTCTCTTTCTAAATTATATTTCTTGATGAGTATTTTCTGTTTCTAAATTA
GCATCCTCCTTCTGGGCAGTAAAATTGAGTGAGTATTAGACAAAATTGTGAAACGTGTAAACAGACATTGAATGGTTTA
ATTAATCAGCAAGATGTGCAGTTGAACTTGAAAGTAAAGCATGTGCATAATAATCCTGAAGATGATTGAAGATTAATTT
TAGTATCTGTGATCAGATAAAGACACATTTCAATGATGCAACAATGTTTAACACTTGCAGGCTACTGCAACAGAATACT
TCTTTAGGGTCCTGAAATCATTCTTGCTTTCCACAAACTTAGTTGAGTGCATTAAGAGATTCTGGCTCATAGACTACTT
CTGCTTGTTGACTCATGCCTTATCCTTTTCACAGGATCACTATCTAGCTTTAATTAATTAAGTCAGGCTAATATTTAAC
CAGTCTTAACTACTATTGCTCACCTTGCTTTTCTATCTCGTGTTCATTGGGCCTGTCTTAGCAAAAAATGACTATAGAG
GCAATCAAAATTTTTTATCTGATCATAAGTTCAAAGTTCAAGTCAGATAATTTACCTTAAATCTGGATTGAAAATTAAT
CATATCCCCAAAGTTTTGGCTTGAGTAACAGTCTAGATGTTTTTGTGTATTTCCTTAGATTCAATTCTATCAATCCTCT
CCTGTGACAYCTGTAACATTCCTATAGACGATTCCTGTTCAATGGTAACTCTTCACAGTGTGTCAGGAAGAGCTCTTAG
AGATACTATTAGTCAGATTATTCAAATAATTTCTTTATTGTATATTCCTATTTGGCACCAATTTGATAGTAGCATTTCC
TTGTGTGGATAGTTTCCCTTTATCTATTAAAAAAGCAGTCTTTTCTGACTATTTTCTATTTTCCCAGCCTCTACTCCCT
TGCTTGGAATTGACTGCTGTGTTAAGAGCTATACAGGTTTACAGAAACTGATCTTTATGATTCCCAAAACACTTGGCTT
TTGTGTGAAATTGCAAAAATTGAAATAGCCTCTTTGGTACTTGGTACTTATTCAAAATGTTCTCATGTGTCTTTTGGCT
GCATTGCATGTTGTGCACAGGTACCCTAGAACTTAAAGTATAATAAAAAAAAAAAGTTCTCGATTTTCCAACACTGATG
ATAGTTCCGACTTTGCAGATTAGCAAGAACATGAATAAGATTAATTTTGCATAAATGTTTTTCATGTGCACAACTTGGA
GATCTTCAGAAGAAAGAAGCAACGCGAATCTCATACATATAATCTTTCCGTAGCTTCTACTGTAAATTTTGGTGAAGTG
AAACAATAAAATTTGTATAATGTAGAAATTAAGGGCTGATGACTGAATGGTCATTCACTTTAAATTCATGTATTTATTG
AAATTATTACTCGAGTTCTTGGCTAGGGATATAGAGGTGAACAAGGCCCAAACTTGAAGGAGTGAGTATTGCACTGGAG
AGAGAATCATGCTTACAAAATATTAGCAGGCCCATGTTCCTTAGTCTCTGAATTTGTAACAGAAAAACACAAATTCTTT
CCACCCTGAGTCACTCCTATCCATGAGGAATTGATTGATTTAACTGGCAAGTGGCAAGAATTTGACATCCCTTGGTTCA
AGCCTTCCAGTGGGGTAAAGGTGTGCTTAGAAGCCATGAGCACAGGGGATCTTGTTCTCTCATTTCTTATTCCCATCAC
CAGCTTTCCCCAGTAGACTGGATGGGTGAGAAGGAAGGCTCAATTAATTGCAGAACAATTGAGTAAGTGTCCTCCATGA
GCAGTTTCCTCCCAGCTGCTGATTCTCAGGACCAAGATGAGGGGAATAATTAGAAAGCCTGATCCTGGCTGCAGGTCTC
TGCCCTGATGCAGTGGTTGTTAAAGTACCAGTTAAGTACAGCTCAAGTTGTTCAACTCAGAAGGCACAATAAGCTTTAG
CCTAATACTACAGTTCTATAGCTTTATGGATGGATACAGGGCAACGGACACAGCAGGTGAAGCATCTTAATGTCATCAG
ATGAGACAGAACCCACCCAGGTACACAGCTTCCATTGCTTCCTCACAGAGTGTGTGCGGCCACCATGGACAAGAACTAA
ACACCTGGGGGTCACTTTACCACAGAGACTCTGTCCTCAGTTTCCAACTAGTCTTTCAAAACTGTTCTGGTTTAGATGC
CCAGGTCTCTATGCTACCCTGCCAGCTCCCCACCCCATGTGCAGTGCCACCACCAACAAGGCAGACATGGCATGCTGTA
TTCTTCTTAACTCTGTAGCTTCTAAACTATGAGTGCTATGAGAAGGCAACTCTGAGATGGTTCTTCAGCGTAGGCCTGG
GTTAGCTCAGACCTGATGCTAACCCTTTACTTACAATGTCCAATCCAGATTTTTCAACAATAAAGATATTTTTATTTTT
ATTGGATGCTTTTGTATGCTTAACATTTTATCTCCAATGTATCACATGTGAAAGGCTCTGTGGAGTCAGTTACACTCCT
TTCTCTCTGGGGTAAGGACAGTTGAGATACATTGATTGCACCCAATTGACACGCAGAGACCAGTAGACATCAGACTTTT
TTCATCTTACTAATGAGGTAAATTAATTATGTCTTCCCGTGAAGAGGTCTAAAGTGATGCTCTAGTGCTATTACCAATC
CAAGAGTGGTATCAGAAGTCTCCTTTCAGAAATTGAGACAAAGAAAGAGGACACCTCTATTTTAAGAAAACAGGTATAA
TGCTGTAATATATCACTATCCACAGTGCAGTGGGATCCCAAGTGAAGGTGTGTCCAAGTGTGCCTGGAGGAGATCTGCT
TCTCATTGTAGTGAGAATTTGAGCTGGGATGATAAGGCTCTAGTGAGGTGAGCAGAGAGAGGGCATTGCATGTAAGGGC
TCAGTGGATGCCAGAGGGGAGCTGGGCAATATCCAGGAGATTGTGAAGCATACAAAAGACTGGGACTTTCCCGCCAAAT

Fig. 6.170

TCATACTTACATTATTAAATAAGTACTTGTCGTCATCCAAGTTAATTAATTGATTTATTTAGATTTTTGAAAGCCTTTG
AAATTGTATATAAAGATAGATACTCAATCTTTACTTAAGAATTCCATTGTGATCTCAAAATTCTTTGAACTATTCTCTT
ACTCAACAAATATTTATTGAATGGCCACTGTGTGTCAGGCACTAGTCTTTCTATAAACATAAGGGATGCTGCAGTGAAC
AAGACCGGAAAGGTCCCTGCTCACAGAAGGGTTACATTCTAGAGCTTCACTAGCAGTACAGTGGTACAGTAACCACCAG
CATGTGTCGTGATGGAGCACTTGAAACGTGGCCAGTTCCAGTGGACATGTACTAGAAGAGCGACGTTCACATTGGATTT
CAAGGACTTTGTATATATATACCCAATGTCAAAATATCTCATTAATATAATTTTTAATATTGCCATTACACATCAAAGT
GATCAGTTCGTTGCATTGTCCTTACGTAAAATACAATACACAACTAAAATGTGTTTTGTTTCTTTTACTTGTGGTCTCT
ATAAATAATTACATAGGTGGTCTTGCCTTTCTGCTGGACAGTGCTGCTCTTGAAAGAAGAGTCAAAAAATGAACTACTT
GACAAATAAATGAACAAGATGTTTTCCCACAGTGAGAACTGCTATGAAGACAGTAAAACTGGGTGATGCAATGGAGAGC
GACAGAGACTACGTTAAATCAACCAGCCAAAGGAGGCTTTTCTGAAATGCAATTTTGCTGACATGAGGATGATAGGCAG
GAGCCAGCCAGATGAATTTCTGTGGGAAGAGCAGCATTCTAGATAGAAAAATAGCAAAGGTCCCAAAGAATGGCTTGTT
ATCTTAAAAAAAAAATGGAAGGGTTAAGTAGTAATAAGTCTGAAGGAGAGTTGTATGAGAGGAAATCAGAAAAGTAGGC
AGGGCTCAAGGAACTTGCAGACTTGGAGGTAAGATGGGATGTTTTTGAAGTGCAGCCAGAAACTACAGAAGAGTTCCTA
GCAGAATGACAAAACTGATTTACATTTTTAGAAAGACCTCTCTATCTGTTTCATGAGGTAGGAGCAGAAAAATGTGTAA
AGACTGTTCTAGTGTTGAATCGCAGACAAGGGTTCCAGAGGCTGCTTAAGGCTTTCAAATGGAGCCTCTGGGGGAAAGG
AGAGGCTGCCAAGCTGGTCGACTCCTCTCTTGGCTAAAGCTTTGCTGGGCAAGCTCTGTCCTTCCCTCCATTCTTGCAT
TCTGCAGGCAGTTGGAGATAAACTAAAAGCATCACTGTTAATGTTGTTTTTCAAAGAATGGAAAAAAAAAGAATGCATT
ATAAGCAGGAAATCATGAAATGTGGGGGAAATTGCTTTATTGGCCCTTGGCTGGAGTCTACAAATTGGAGCATTATACA
GGAAGGCATTAAACAGGGGGCGAAAGGGACATGAGTTTGATTTTATTAGCCTTAGGTGAGAGATGAAACTCTTTTTAAA
GCTCCAAGAACCCCTAGGACCTGAGTTGAGAAGAGACACAGCACAAAGCAGTACAAATCTGCTGAAGCTTCAGATAATC
TTGAAAAGAGTAGAAGACACTGCAGCTCTATAGCTAGAGAAAATCAAGCCTGCTTTGTTAAAAACACTGATTTGTAAGG
ATGGCTGTCCATTCTGTAAACCAGGGTATAACTCTTTTACGTGACAAGACCATTAGGAAAAATGGCAATTAGATGAGCC
AGGATTTCAGCAGTCAGTCTAGCTGAGGAAAGCGTTTTCCATCCCTACTGCTTACCGGCCATTTTGGGGGACCATGATG
ACTGTATGAGACAGCCTTAGTTTGAGACAGTTGCTGGAACTTGACTGTCATATTTGAAGCTGCCAAGCAGTCAATTGAC
AATGAGTTATCAGGGGCTGCATTGTTTTAGGCCACGTATAAAGCTGGATTGGACAGGTATGCAGAGTGGCTTCTACTCA
CAGCTGGGCAGCTGTGGTTTCAGCAGTCCTTGTAAAATGCCTTACTTGGGAGAAGAGTCTTCAAATTAGAGTGGTAAAG
ATCTATTTAGTAGCAACATTTTAAACATCACATTTGAACAAGTATTAAATATGCCAAAGTTCAGCATTTCATTCATGGT
CTACTCTTTCCCTCTCTACTCACTTTTTCTAAAAGCTAAGATATTACATTGGTTTAAAAAAGGGGAAGTTACATAAAAT
ATAAATAAAATGAAATATAACAAATTCTAGTATAATAAAAATTCTCCTTAAAAATCATTACCTCCAATACAAAGTGAGA
TTAATCTATCTACCTTCACTGTGAAAAGTATATAGAAAACAAAATTTAAAAATTACAATAGTTCTACTCATCCAAGATC
ATAAAAGCATGTTTGTTTCAATGAAGAGAATTGTCTGCATTTACTTGGATGTTCATAAAACTGGGTTTCCCTATCTCTA
ATTCTTTGAGTATAAAGTTTAATTATATATGCCCTTTCTAATAACATATAAATAACAAAAAGAAAGTAAAATCCATATT
ATATCATATATAAATAGACCAATTTTTCGTCAGTATCAGATTAAATAAACAGTAGCCTGTCATTCCAAAACACATGCAC
ACACAAATCATTATATACAATTTGTGGGAAACWTTTAAAATTTATTTATAACGATTGGGAATATAAGAAATATGCAAAG
ACATAGGGCAAATCCAAACCAAAACAATTCAGCAGTAACAATATTAAGATTAGACAAGGGGAAATGTCAAGTTTAAACA
CCAAAAAAAGGTAAAATCAGTGGTGTTAGGGCGTTAGCTGGTACCAGCTTGTAAGAGCCTATGGTTAACATATCTTCCT
AACTCCATGTTCAATAACATCATATTGAAATTGGCCACAGTGTGATTATTTACACCGTAGAAATTGGAAATGATACAAA
TCAGGGCTTTCTTCCTCCCCTCCTCTAGAGCCAATTGCTAACCATTTACTAGAACACCATGGGATAGAAATGATGAAGT
TAAAATTATTTGAAATGCACATGTGCTCAACAATATAGCAACTAAAACTATAAGACAAAAACTRTTAGAAATGTAAGGA
AACTTTATTTAAAACACATGATTATACTGGCATATTTTAGTTTATTTCTTCAGAATTGTACACATCCAAAAACTATTAA
GTAACAATATAAATAAATTAGATGTAATCCATAAACTTAGTAAATGAAATAGACAGTCTTTATTYATTCAATGTAAGTG
TGTAAATGGATGTCTCCACCTTAAAAATGAGATATTTTAAATAAGCCATAATTGATTCAAAATGGAGTTACCTTTTTTG
GCATCACTAACTTAGCGRGTAATCTTGTAATCTTCCTCTTAAAATTTGTTTTTGTGAAATCCTAATTTTCTATTTCTTT
TTCTTTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGCTGTTGAGACAGAATCTTGCTCTGTCACTGAGGCT
GGAGTGCAGTGGCACGATCAATGCTCACTGCAATCTCCGCCTCCTGGGTTCAAGTGATTCTCCTGCCTCAGCCTCCCAA
GTAGCTGGGACTACAGGTGCCCGCCACCACTCCCAGCTAGTTTTTGTTATTTTTAGTGGAGATGGGGTTTCACCATGTT
GGCCAGGATTGTCTCAAACTCCTGATCTCAAGTGATCTGCCCACCTCGGCCTCCCAAAGTGCTGGGATTACAGGTGTGA
GCCAATGTGCCTGGCCCTAATTTTCATTTATTATACTTCCCTTACTATAGATTCAATACAAGGGAATGAAAGCTTAGAC
GTTCTTGGCATATTTTATGAACTCCTATAAACCCCAACCAGGTTGTGAGTAGTTATCGCTTACTGAGACCTTAAACACA
AACAATATTTTAATGTTCATTTATTATCCTGAATAAGATACATAGATATATATTGGGAGTTGAGCGCTACCATGTCAAG
AGGAGCAAGCCCATAGAATGATTTTTCTTTCATTTTTTTGCAAAACAACTGCAATGTCCCATTAAGACTTTTCCTGCAT
GTTCGTGTCAGATGAAGGAAAGTATTTTCCACTGATACCCCAGGTTGTTAGCTAGTCCCACGACTGCTCTTCAAGAAAC
ACAAGAGACCTATCTGAATGTGGGTAAAAGGATTTCATGTTGCTTTTTACTTAGAAACCCAGATTGTTTGTAATAAGCT
CTGTCTGATTCCTTCAACACTTAGCATCCAGGCAGTTTTCTTCCTCTAAACTTCAAAAAATAGGAGAGAATTGTAAGGA
AAATGATAAAAGCATCTGAAGTTCAGCAAAAGTGAGCCTCATCTGAGCTGACTTGTCCTGATTTGGGGATAGCCTGAGG
AGAGTGTGTTCACGCACCTTGCAGAGTAGCCCTTAGCAGCCACTTGAATAAAAACGAATGAAAAGATAAACAACAGGAG
TGGGCAGAAGTTCGAAATGGAGGATGTGTGTGAAGAAATAATAACATTGTCTTGAAGATTTTAGAAAATGGGAGAGGCA
AGAAAAAGAAACATAGAGATGAATCCTGGAAAAGGTATTTAAATCTTGGTTGATTGTTCATAAAGCCCCCACCCATAGC
ATCTTCATCATCCCTGTGGGATGCAAATATTGTTGTTTTCATCTTACACACACGGACATTGTGTTTCTGACAGGCCAAG
GGGCTGTTCAAGGTCAAATGACTGTTGAAGGCAAAACCACTAGTATGCAGCAGTAGCAGAAAATGAATGCATGGCTTCT

Fig. 6.171

GATGATAAATCCTATGGTCTTTTCAAAACGCCTCTGTTGTCTCTAGGGAAATTGCCTCAAATTAGAAATCAACACATTC
TACTGCAGTTCTAATTTGCACACGCTTGCCTGAAAACTTTCTAATTTCTGGTTCTTTTTTACCACCTCCTCTCCCACTT
AATTTCATAGCTACAGAGGGGAAAGATAGCTACTGTCCAAATAGTCTTGCTAAAGGACCTCATTTTCAAAATTCTTTTT
CCCCCTTCAAGTCTTCATTTGACTCACGGTGTAATCACATTAGTGAGGAAGATTTTGTACAGTCATACCTAGTGCCAAA
TATCAAGTTTTCCTCCAAAAAGCAAAATAAAATGATGGGCAGACCACCTGCTTTCCATAAAATTGTACCAAAATCAAGG
AGGACAACTCTACGTTATCACGTAGAAATAACATCAGCATTTATGAGTAATAGGTCTGTTTGATGGGCAATGCTGTGGT
GTGTAAAATTCTGATGACAACATGTTGAAAAAAATGTCTGGAAGAATGGGAGAAAAAAAGTGAAAGTCTATGGAAAGTA
GTAGATTTGGAGTCCTTTTGAAGAAAACATGCAAGAAGCTGCCAGATAACTGCTAGATAAGCAGCTATTGACCATTTAT
GAACTCAGTTTTACCAGGCGTTGAGAAGGCGAGAATACTCAAAATAAAACCTGCATAGATTCCACCCTTAGGAAACTTA
CAGTCTGGCAGATTCAAAACAATTTCACTTCACTTTAAGTAATTGTAAAATTGCCTCCATAAAAGCATAGCCTGGATGA
AAACATTTTTCAATATTATTTACTCATTTTAATGCACTCAAATAAACTTTATACCAAGTAACTTCTTTAAAGATCTACC
AATATAAGGCACGTATAGATCAAAGTAGACAATGTCAGCCCATATAATCCCCTTCTCCAGGTCCATTTTGATTGCTTGT
GTCAACATTGGAGACCACAGTAAATTACTAATGGTCCTTAAAATTCCCCCCCTATTTATCTCTTTCTTTTCAATTTTTC
TCCTTCACTCCTGCTACTCTATTTCTTGTGTTTTTTTTTATCTACTTTTTTTTTTTGCTCTTCCCCAGGGAAACTAGA
GGAAAATTCTTCATCCTGATAAGAGTTTTTGGCACCAGAAAGGATATTTTACCTGTAGTCTGACCTACATGGAGTGAGG
GAGCCTGAACATGTTTCCATGAGTGTTCTAGTTCAATGGCAGAAAGATCCATCAGGAGAAAGCCTTTGTCACTGATGG
CTTTGAAATTGTTCAAATGACTTTGCAGTTCACAACACGTGAGCTTAATCATTGGTTTGGCTCTTCTGAGGAGCTGAGG
GAGACAAAGAAGCAAAGTTATTTTCCCAGAGGTAGTGAGGCCCAAGATGCTCAGAAAAGATTTAATTGAAAGATGCCAT
TGCTGAAATTTCTTTTATAATGTTCTGCCTGTGGCTTTCCAATAGTAATAGTAGTAGCAGTTGTTGTAATAATAGAGAT
AGTAGTTGTATTGATAGCAATAATAATAGCTACTATTTATTGAGCACTGACTGTGTTTCAGGCATGGGTCCATGCACTT
TACATATATTAACTCATTTAAACCTCCCAACAACCTAACAAGGTAAAGATGATTATTATCCCATTTCACAACTGAGCAA
ACTGGGACATGAGATTTAAGGAACGTGCCCAAGCTCACACAGCTAGGCGATCACCAATTATACATTTCCTCTCTGCAAG
AGAACAGTCTATTTTTCAAAAACATGCTGATAAAACAGCAATCCCATTTGCTTCTAAGGACAAACCCTGCCATGCCTGA
GTGTTGCCATTCTTAAACTCCAGGCCAGGGCTTGCCTTTGGATGCATGTGAGCTTCACTGGGCTCTCTGCTCAATGTCC
CTCCTCAGAGTGTCTCCCTAACCACCTCTCTTGATCTCTCTCCACCCCTTTATTCCACTTGGGTTTTCTTCAGCACACT
TAGGGCTACCTGACAGTGTTAGCAAGGCTACAAAGCAAAACACCAGATGGGGTGGCTTAAATAACAATCATTTATTTTC
TCACAGTTCTGGAGGCTGGAAGCTTGAGATCAGTGTGCCAGCTTGGTTCAGTGCTGGTTATGGGTCTCTTCTTGGCCTG
CAGACACAGACACCTTTTCACTATGTCCTCACATGGCCTTTCTGTGTGTGTGGGGGGGGGGGGGTGTGGGTGTGTGCGC
GCGCGCGCGTGCCTGCATGCCTGTGTAGGGAGAAAGAGAAAGCTCTTTGCCTCTTCTTATAAGGTCAGATTAGGACCCT
ACCCTTATGACCACATTTAAACTTATTTACTGACTAAAAGCCCTATCTTCAGATATAGTGACATTGAGAGTTCAACATA
TGAACATATGAGCTGATAGGAATATATGAATTGATGGGAACATATCAACACTTCAACATATGAATTGGGGTGAGGGACG
CAATACAGTCCATAGCGGTGACCGAGCATATATTTAATAGGTCATTAATGTGTTTACTATGTGTCTTTCCCACTCCTCC
CGGTATTAGTAATCTAAATACCAGTAAGGATTTGAGGTTCTTCTTTGTTGTATTCCTAATACCTAAGACACTGTCCCAC
ACATGGTAGATGTTCAATACATATTTGTTGGATAAATAAAAAATACAGAGCTCCCTCTTCTCCCCTACATGTTGGAAAA
TGTGTGTGATCTAAATGAGGGAGAGGGAGAACCATCTCATCTAATCTTCCAAACTTCCTGAGCCACCTTTAGCTACTGA
GCACATTCACGTTTCCGTCAGCTGGGAATTTAGGTGCCCTGCCTATCATCCTCTGGAGCCCATCCCAGGAGGGGGCAGA
AGGAGGTGGAGCAGCACACTAGTGTTCCCAGAGTGGGGAGAGCAGATGGAGAGGAGTTCATGGGAACGATGATTTACCC
CTGCTCACTTACCCCTGTGAGAGGACACTGCCCTCCACGAATCAATGCTGGCTCCTCCTCCAGGAACCAGGCTTCTGCA
TCTCACTTGCCATGCTGTGGATCTAGGAACAAATTTGCATTTGGAAATTCATTTTAAAGTGTGCATGCTGAGGTTCTGG
TGACATGCAGGGTAACTTCTCCCACCCACGATATCTCTTGACTCAGGCCTTCATGTAGGAGGGGAGGAGTGTTTGGCAG
CAAAACTGGGTATTTCTTAGGAAGGAAATCCTTCTAAGCTTTATGGAAATCCTAGGGTGTTGTCCCTACCTTTCTGAGT
GTGGAGCAGACTATCTGTGTACATAGCGGTAGTGAGGGGTGTAATATTGGAGAATGGCTTAGGTAACAGCCAAAATATA
CATTGTATATCCCCAAAAAGACGACCAAAGACTCACAGGGCCATGCTGCTATCATTAGATATAATAGGCAWAGCCTTTC
ATTGATATGTAAATGTTAGTATTTTTGGTAAGTGCCTTATTTTATCTTCTGGATAATATAAGATCAAAGTACCATGAGG
GCAGGATCCTTCTCTCATTCATTTTTTTTCCCAAGAGCATAGCACAAAGTAGGAAGTACTTGTTGAGTGAATGAATGAT
CCTAAATATGAAAGGATGGCATTTTATCGCCATTTTCCAGATGAGAAAAAAACGAGGGAGCTTATCAGGTTTATATATA
GTGAGTGACAAACTTCAGAATTAAACCAAAATCTAGTGATTCCTATAACTTACAGGTTATTAAGGAGTCCACCTGAATG
TAAGTCCAACAAGACAGGTGTTTATTTTGTTTACATACATTCCAAGTACCTAAGACAATGCCTAACATATATAAAATAC
TTCATAAACATCTTCATGTGTGAATAGAATTTTCAAAGTTCATCTCAATATATGCCTCATGTGACACTTCCAACCCTTC
ACTGCCAGGTCTTTCAGTCTTTATTTGAATAGGTTCAGTAAGAAAGAATTCACTCGTGCTTTAGATATGTATGGCTTTT
CCACATTGTTGTCAGTTCTAAATCCCGAAAGTTATTTTTGTATGCTTGGAATACTTCACAATATTCACAATTTTTACAA
TAAAATAATTTCAGGTCTTCTTGATGAAAAATGTCGATCAGGACAGGGCTGAGGATAATCACAAGGCTTGAAATTAAAG
AAGTCTCCTTAGGCTGAAATGAATTTCTAGTTGTAAAACCAAATATGAATCTATGTATTTGTGTTCCTCAGACCACTTT
TCCAGCAGGTCCTTGGCTGTATTTTGTATGCATTTGTGAAATGCTTTGTTGAAATTCAGTTTCAGCCAGGTCTGTAGCA
TTCTCCTGGCCCCTGGTCTGATAGTTGTACCAGGAACACTAGCTAACAATTGCATGGCACTAGTCTCAGCTGGATTTGT
TCTAACTCTTTTATATGTATTAACTCAATCCCTACAACCACCCCATTTCATTACTATGCCCACTTGAGAACTRAAAACA
CTGAGGAAGAGCGAAGTTAAGTAACTTGCAGAGGTCTCAGAGCTAGGAAGTAAGACAGCCAACTCGGAACCCAGCAGAC
TAGCTCTGGAGCCTACCCACCTACCCTCCACACCGTACCTGTGGTCCATCCTCACCAACCAGGCCTGCTGCCCTGAGCA
TAACTTCACCCTCTTGCGTTCTAAAACTATCTGCTGATTAAGTGAGTTCTGAAATGTTTTCAGGGACCAATACTAAAAT
CAACTATGAAATAGTTTCAGAGATTGACCTTTCCTCCTTTTGGAATGGATAAGATTTTCCCAACCGAGGTCTCCCATCA

Fig. 6.172

GCTCTCCTGTTCCCCTGGACTGTGGCACATAGGAGGGCCAGGGACTTGCGCCTATTATTTCATTTCTTTTGTTATCCTT
CATTTCTAGATCTCTTCTCTACCACAATTATCTCTCATGTTGACAGTTTCCCCACAGATGGGATGTCTATTTCCTTGAT
AATACAGCATTATTATGCTAAAATCTCTCATTTGTGTTATTAGCCAGACTCTGTGCAAAAACGTGTGTATATCTGAGAC
TCTGTGCTGTTCTTAGCCACCTTCTTGGTCCCTTCTCATGTAAATTACTAGGGCACTTCTTCAATATTATTATTATCAT
GCCCCCTTACCACCACCACAAAATCTTCCATCATAACCCATTTTTTTTTCCTCCTCCTTACCACATTTTCAGCTTTGAA
CTCTTATAATCAGATCAGGAATTACATTTCTGAACAAATGCAGGCTTTGCAGCATTGTGAAGTGCAGCTGGTCCCCAGC
AGAGAGCCCTAAGCCCCTGCCTGAAGCCAAACCCCCCTTTTGTGGCGAGAGGTCTGGATTTTATTTGTTGTTTTTATCTT
TGGTGAACTGTCAACTGGAAGCAGAGATGCGAACACCAGTTATGTCCTCCCCTGCAAGGTTCATGACCAATACTTTATA
GTTTCTGGATATGCTTCCTAGGTTTCTTCTGTTGGTGTCATTTGCCTGCATGTGACTCACTGGCAGGTGGTGATTTCAT
CATATTCTAGACATGTGTCTTAGGAAGCTGGCCCCTATCCTGGCTGGCTGGACACATATCGAAGTTCCTTAGATCTACC
ATTGTCACTTTCATATCCATTGTTAAATACTATAGATAGCATGCAGGGGTCAGCCAAATTGTTCTGTAAAAGGCTCAAG
CATAAATATTTTAAGTTTTGTGGGACAGACAGTCTCTGTCGCAACTACTTGACTGATGCAGCATGCAAGCAGCCACAGA
CAATAAGTAAACAAATGGGAATGGTTGTGTCCCAATAAAGCTTTATTTATAAAAACTGTCTTTTTTTATAAATAAAGGA
GCCCATCGTTTGCCGCCCCCTAGTGCCAGGAAGGAACAAGGGGAAAATAAGGAAGAGACCCAGAGGAAAAAAAGTGTCA
CCAACCATATCTCTAACTCATATTTATTTACTTATTTTTCTAAGCGCAATCGCTAAATTATCTCGTCTTCCTAAGGCGT
ATGAATCTCTTACATTAACTTAGGGACAGAATATAGAGTTTTATGTTATCTTCTGTGAGTTCTTTTTCCATTCTGTCAT
GTTTCAGACTTTCAGAGGTAATTTTTAAGTATTTCAGCTGTGCCTTAGATACATTAAGGGACCTATAGTGCCTCCCTGA
GGCCAAGATGATGGTTGCAATCATAAATAGGTTATTTCTGAGTTGAGACTGGTAAGAACAGATTATCCTGCCCAGACAG
TGATGTGCCAAGCATTGGCAACTTTGAAAAATTTGCAATTTGATTTTATAGGAGAGTTTCCTTAACAGGCCTGAGTTTT
TTTCCCATTGCTTTTGTGAATACAGTATTTTCCCCTGCTAGACTCTTAGTCAAATGTTCTTGCCATTATAAGAAAAAAG
GAAAACTGAAAAACTTGAAAATAATTTTATTGGCTTAGGAATTATTTTCATGTTTGTCTGCTAATGGCAAATAAATCTA
CCTTATTGAATCATACGGATTTTAATTCCCCGGGGGAAAGGTAACCAATGACAGGCATATGTGTGTGTGTGTGTGTGTG
TGTGTGTGTGTACAAGTGTATGCTTGTGAAAATTGAACAGCAAAAAGAAATTAGGTGGAGAGGAAAACATTAAAGCTGG
TACTGGTGGGTAATCATTATATATAGTATATATACACATATGCCTTCTCCAGTTTTATGGAGGCAGTCAGTGCCTCAAA
GACGTGTAATAAAGAGACAGCAACAATTATTGGTGGCATTCATGTAGGAGAGGCTTGAGCCAATGTAAACTTGACTTGG
TTAGTAATCTTTGCCAAAACTCCCTGATTGTYGTAAGGGAGTTGTGAACCATTAGGTTTGCTTAACCAGAACAGCAAGT
AAGCATCCAAACAGATTGTCCTTGGACCATAAGCAAATGCCCAGAAAATAGCCCCCTGCATAGGAKATTAAGTACTTAG
AAACAAATGAGAAAAAATATTACAGCAAGTCTTCCAGGTATAGAAGGGATAAACAACCCTATTGGTATCAGAATTTAGG
AATATTATTATGTCTCCCACTTTAAATGAAATACAGCAGCCTGACTTGGCAAAATTTGGGGAACGGTTCCCCTTCTTTG
CAGCCAGGTTCGGTGCTTGCCCTCTGGCATCCCTTCAATTGTGTATATTACTGGCAGAGACAGCTGTTTGAGCTGCTAA
TAAGATTGCAAAATAATATCAGCTTGTGCTTCAGGTTGAAGATAAGAGATAACATTGCATTGGCTGTAGGAATGGCTTT
CTTATAAACTGGATTTAGTTTTATCTCACTTGTCTCACTTGTTACTTTTTTATTTATTTACTTTTTTTTTTTTGAGATG
GAGTCTCACTTTGTCACCTGGGCTGGAGTACAGTGACACGATCTTGGCTCACTGCAACGTCCGCCTCCCAGGTTCAAGC
CATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGATTACAGGCATGCGCCACCACGCCTGGCTAATTTCTGTATTTTTAG
TAGAGACAGGGTTTCACCATGTTGGCCAGGCTGGTCTCAAACTCCTGACCTCAGGTGATCCGTCTGCCTCGGCCTCCCA
AAGTGCTGGGATTTCAGATTACAGGTGCCATGACGCCTGGCCCCACTTGATACATTTGAGGGTCTCATAAGGTCTTGAA
ATTGAGCCTGTGAATTTATAAACAGGGCTACAACCATCCTGCAGATGCAACTTTTTGGCATGCCAGAATCAGTGGCACC
TGAAGAGCATCTCCTTGAAAGCGGTAGTAGATAAAAGGAGATGCCTTTCAGGTTTCAGACGTGGACCTCAGATTCACCT
CCAAGACTAGAGTTATCACAGTGCACAGGATCATCCAAGAACAGACATGCAGAGGGAGGAAAGGCCATTGTAAGGCTCA
GGAGAACATAGTAGAGCCTAAAAATGAGAACAAAATGGTACTATCAGAAAAGATGGCAGTGGTTGGGACATAAGAGAGG
GTAGGTTCACAGGTTTGTGGGACCAGGACTCAGTCACTTTCCTCGCGCTAGGCTCAACCCTCACGATGGGGAAAGTAAT
GTACTTCTGGGCTTAAAATTCTTCACAGTCAACTGGTAGAGATATGAGGGAATTTATTGCTAAGTAGTAGGGAAAGTGT
TTTCACAAATAACATACAGGAAATTCCCATATCATACAAAGGAGGTTGTATTATCACCACGTTTTTACATATGAGAAAA
TAGAGTCTTAGAAAAGTTATGTACCTTGCCTAGGAGCATGTGCCTAGATAGTGGCAGCTCCAAGATTCAAACCTAAAAC
TCCAGAGTCTGAAACTCACACAGTTTCTTCTCTGTTCTGAGGCTTCATGCAGCTGGACAGGAGGTTAGCCTGAGACAAG
AGGAGGATCATTCTCGAAGGCAGAGAGGCTGGGGACATGACTGCTTTCTGGAAACCTGAGCTCATGGAGAGAGGCTGAG
AGTCAGGAAAGTAGGACATGAAATCATTTAATGAGAGTGAAGACCAGCCAGGTCAGGGAGTTTGAAAAGAGAGTTTTGA
AATATCCATTGTAGCTAATATGGGAGAGCATTCTTTGAGAGTGATTAAAATGGCGACTGAGGACACAGCTAAAGTGAGA
AAGAATAAATCTGTGGCAGACTTGCATATTTTTGGTATGTGCATCTCTTTCCGAAATCAATTGAACAGAGGTGGAAAA
GTAGCTTGGTGGATAATGAGGTAGAGTGGAAAGTTGAAAAGACAGAGCTTAGGAGTCTTTCTGATTGGTCTAAAATTCC
CCAGGGAAAATCATGTTTCTTTTTATGAATATAGTCCAGGTCTTAGGTCTGTCCCACGGCACAAAGTTTTCAGGACATT
CTGGACAAATTCACACATTTCCCTGGATGTCAGTCAATTCCCTTTGCCTCTGTGCTATCACTTTCCTTCTCTCTGCTTT
CTCCTTGAGTTACCTGTCCCAGCTCTTCACTCCACATTCTGCAGCCTCCGTTTAGCTCCTTTATACCTTTGTCCAGATT
CTTCCTAACTTATTATACTGCCTCCTCATGTCAACTTCCATCCCATCTGCATTTGGGAAAAGAAGCCCACATGATAAGT
GAGTCCATCTGCTAAATGTATGCATCTTAGAGCATTTGTTCAAGATCAATAAAGATACAAATTATTTTGATTTTTCAGC
TGTTGCCCAAATCCACAAGAGTACACAAATGAAAATGCACTGATTTTTAAAAAGTACAAATAGCCATTAAAGTTTGTAT
TGTTTTATTCTTTAAATAAGCCGGAAAAATGGGAATACGTAGGAACGAGGGAGCTAGCAAAATAGGCGGGGCTTCTGCG
TTTCAGGTGGTCTGAGACTGCAGTGACCCTGAGGCTGGTGGACCTGGAAGGAGCCAGGGAGAGATGGTGGATCCCAGGG
GTGGGAGCAAATGCATGGTCCAAGGTTCTGAATGGCAGAGCTAGACCAAAGGACTAACCTGCTAACCTTGACCAAGGAG
ATGGCCCAGAGGTTTTCTATTTCTACTGCTCCATCTTTTCATTATAAGTTCCCAGTAGAAACGAGTCATCATTTAAAAT

Fig. 6.173

ATCGGTGCAGCACTTAACACATAAGGAAAAATCAATAACATTCATTTACTTACAGTACCCAGAGAAGAAATAAATTCAA
ATACGTAAAAATGGGCATGAACCATYCTGTTCCATATCCCACTTTAGGACTGTCAGCAACTGTATACATTGCTGAACGT
CATTGCTCTTGTACATAATGAATAATTTTCTGTAACCCTGTGAAGGCCGACTGATTTTTACGGAAAGACAGCTTTGTGT
TAGGCGGCCCGCCTTCCCCACGGAATCGGGTTTTCCCACGCCACGTTTTGATGTTTCTGAGAAGTGTGCGCCATCTGCT
GGCCGCTGAGAGGATTGACGAGCAGCCATAAGGAGCACCGTGTTTCTTGAGCATGACTTAACCAGGCAATGGAATTACA
ATTATCTTTGGGTTTCTAAAACATAATAGACATTTCAGGATTCACGTGACTTATGAGAAGTCGCTTAATTGCCTTTCAA
GCAGTATACATTTTTTATTCAATATGTGTATTATTCTTTGTAATAATAAACRATGCAATAAAGCAATCGAGGGGTTCCC
ACATGCTCTCTAGGCAGAGATGGACCCCGGGCCCTAGATGAAAGGTTAATAGTTTGGAGTGAGCACTAACTCTGGTYCT
CTGACTCTGAATCTAAGTCAGGAGTAGAATAGAGCTGTACAAAGAAGACTGCTTGATGGAATTGAATTTTGTCCCTTCT
TCAATGGGGGAAAATAAAGTACAGTTTTCATCAATAGATTAATGACTAAACTTGGACCTTGATGCCAAATCCAACTTGA
GCTCCGCCTGCACAGTCTGGAGATGTACATAAGAGACACATGCTCAGCCTCTTAGCACATCGTTATAATCCAGGCAGGC
AATACTATATCCTAAAATTACTCCTCTTTGCTGAAATTGAGAAAATAGGAATTACCCAGGGGTAAATTTGGTACATAAA
TGTACCAAATGGTATGATTTATTCTAGTACTGTCTTCTTTTTCTTGATTTTCTTCTTTATTGGGAAATTTGTATTTTGT
AGTTCCTTCGACAGTTTAAAAATTAAACTAGAGGGTAAGATTTAAGTTTTCTCACAACTAACAAATGATTTTGATTTTA
TTGCCCAAAGCCCTTTATATCTCACTTTCGATGGGTCTAGTCCCTTTGGCTTAATTTAGATGTGATTTTTCCTTAATAA
TTTTGAAAATGGTGGTGCTCTATACCAACTAGCTAGAATAGGAATCACATTGACAGTATTTAATGGATAGAAGCATCTC
AAAGATCTTTGCTTAATGAGGGCAAATCATTAGCAATGTCCAACTCCCTATGTTAGAGGCGCCAACTAAGGCACGGTAC
TTAAATTTAAAGCACAACTCTTCGACTTCCATAAAGTACATATATTACATTATATTTTTAAATTACGGGGTAGTGACTC
GATATGTCACTGGAATGTTTTGAATAGTGCCCCCCGGCCCCCCTGCCAAAAAAAAAGAATGCAAGAACACTGTCCTAACCA
AGAAGGCCTGGGAGTTTTAACTAATTCAGCCTTTCAGCCTCCACTTAAAATTCTGGAAGACAGTAGTGTTGGTGCTAGC
TGTCCTTGGCTGCAAGTTGTCTTTACAGAAGAACTTGGGGTACATTTTGGTGTGAGGCCACTCTTGCAAGCAGCATTTG
CAGGCATTAAGAGAATGCACACAGTTCAATAAGCTGGGGTTATATTCATAATCAGTCTTTGTTTAATGCTGTAAAAATA
CTAAAGGAATGGCCAAAATCTCTCGGTATCTGGGGAAAAGGGTTCTTTGAAACTTTTGATGTGTGAGCAGAATAATGGA
AACTTATCTGTTCCCCATGCTTTTAACACACACACAAACACACACACACACACACACAAACGTCATAGATCAAGATGTA
ACAGGTTGGAATGGGGCCTAGGCTTGGGAATTTTGTGACTCCCCAGGTGATCTCAATGTACTGCTGGTTTATTAGCAGG
CTTTGCCCAAACAAATACTCTTTCTCACCTACCAGGAGAAATCAAAGAGCTCTGGGTTAAACACTTGTATGTTAAAACC
AAAATGGTGGGCATTGCAGAGTAGAGGAATTAGGAGAAGAAAATAGATATTGGGTCAAAAATTGGCCTCAGGAACCAGG
AAGTAAGAATGGCCAATCTTAAAAGAGAAAGTTCTGTTGAAGAGGGAGCATTATCTGAAGTTGGAATGACTATGGAGGA
CAATGACAGCTGTCCCACAGGATGTCACTGGGCTGAGGAAAATCAGACTGGAAGCCACAAGCCCATGGGGGCTCAGGAA
GCCTGTTTCCTGAGCAGAACAGAGCTGGGTTTGGCACATGCCTAGTGTTCCAGTGAAATCTGTCATTTTTCTGCTTCCA
CTTTTTACAAATGAGTTATTCAACGCTACTTTGTTGACACATGGACTCAGCATTTAAAAAATGACAGTGGAGATAAGGG
TCTAAGGTAGTGATAGGCAAATGAATGATGGGCATCCATCATCTGAAGAGCTTCTTAAAATTCAGATTTCCCAACCCCA
CCACAGACGTCTGTCTCCGTAGGTCTTGGGTAGGGCTCAGAGCAGGCTGCTTCTGAAATTTTGAGGTTGTGAGGTAAGA
ATACAGGTGGGAGCCTGCATACCACTTGTCTAAATATTTAAAAGTTGTAAATCAGCCTAATGAACTGTGAAGGAAGCTC
TGGCCTACTTCCTTGACAACTTAAGCCTATACAGAGACCTGGAAGATCAAGTTCAAATGCAGAACCTGAATGTTTCGGT
TCTATCTGCTCCCTCAGTGTTAAAGGTCTGTCCTTTTTCCTTGACAAATATGCTTTCATAATTGTCTGGAAGGCCGGAT
TCCAATTCAGCAATTCCAATCCCTCAGTGTTGAGGGAAAGGGCCACCCGCTCTGCTCTTCTCTTCCCATCTGGCTCTGT
CTGGAACCACGAAGCACCTCTGTGTGTGTGTGGGGACAAGCCAGCCCAGGTGCCTGCGTTTTGGCCCAGTACCTCCTAC
CCTCATACTACATATGTAGCCACCCCCAGGCATAGGGTTGTGCACACTGGTGACATGTCTGCCCTCTAGAAGAAGCATG
GGGGAAATGGGACCCCACAGGCCCTGTTAGCTGATACGGGCCATGAGCTCCCAGGTCACGGTCTAAAAGTACATTGGTT
TGGGGCTCTGCGTGACCATATTCCAAGGATCCTGCAAAGGAAGAGGCAGGACTGGAGAAGGGAAAGAGTGGGCCTTCTA
AGGCTCCCAGGGCAGGACCTCTTTTTGTCTGGTCTAAGAGGGGTATTGAACCCAAGTGGCTTAGATGCTGAATCCCTGG
GCTTAGAACCCAATGCCCTGGAGCATTGATCTCACAGTGCTGGCCAGAAAGGGGCTCGTTGGTTGCTACTAGGTCATTA
TCACTCCCAGGGCACCTGGGCAGTCAATGAAACTGAGCTCAGAAAAGTCCTGCCTTTATGATGTCCCTTCCACTTCCAT
AACTTTCTCCATAAAATAAAACCAAGAAAAATAATTTTTCTCTTGATYTCAAATCGTATTTAAAGGAAAATAGAAATTT
TATTTTTAAAGAAATTGCATGTTTTCATTGTCTATATATTGTTTTGAAATATGTACACGTTGTGTAATGGCTAAATTGA
GCTAATTAAATGTATAACCTCACATGCTTATCATTTTTGTGGTGAAAACACTTAAAATCCACTCTCTTAACAATTTTCA
AAAATATTTGAAAAAATATAGTTATTAACTGTAGTCCTGTAACTATTTCCTATTAATTATAGGGAAGTAGAAATTTTAA
TAGTCATCTTTCTCATGCTTTTCTTGACTTTTAGATTCAAGAAATAATAAACTTGAATAAAAGAGATTAATTTCACAGT
AATGCAATATTTCTGTAAAATTTCACACCTTGTTGACTGTCAATCAGCTGAGAACTTTACACCTCATTAAAAATCCATT
AGAACAATGGCTGTTCCATTAGCCCTTCAGTTTATGCCTTAAAACATACTTGTCTAAAARCAACATTGTTTTTGGCAGG
CTGCTCCTTTTGATAAGTGGGGACTTGCTCTGGTATTAACTGTTTCCAGGTCTCCAGAAAAAGGCTCAGGGTATGTCTA
GGGACATCAGTGACAACAGTGAGGTAGAGCAAGTCAATACTGTGCCACCTCTGCGCTAGCCAGAGAACCTCTGCTCCAA
GGTGAGTTGGTTCCCCCTTTCATTAAGGTCCTCAGGCCCCAGTAAAATCCAGATATGGCTTTGGAGAGGAACGCTGTCT
GAGTGAAGCTCCCTCAGTTTCATAACCAGCTTAGAGCTTCTCAGCTCTGACCTGCCTGTTAGCATGGCTGGGGAGCCCA
GTGGTTTATTGAACTGGCTAATAACAAAGATTCTGAGATAACGAAACAGAAAACAGGTAGGTTTTGATGAAAAGGAAGG
AGATAAGGAGGATAAGAGGGGTAGTAGGGAGGAATAGTGGGAGAGGGGCAAAGAAGCATTAAATCAAGATTTGGAGAAT
GGCTGGAAACAGTGGCAGAGACTCAATAGGAGAGTGACCCTGACAGACGGGGAGGTGGCAAAAGTGCTTGCAGGCACAG
GCCACCCAACAGTTATTTCRGGGACTGTTCACAATCTCATCTACTTCACAGTTTTGCCTTGTCCTAACTCAGGTCTTAT
TAGAGCCAGAATAAATTGCCTTGCATCGTCAGAAACTGACCATTCATTCCTGTGGTCTTCTTTGAGATTTTTAGAATCC

Fig. 6.174

CAAGGACTAAATATCCCTATCCACTTGCCTTTGTTCACTGTATTGGATGATGTGCCATTGCCTGTCTCCAGCATTCACT
GAGAGCAGTACCCCAACATCCAACACATCTTTAAATGCCAAAGGGAAGTGAAAATGTCCTGACTTCTTAAACTCTAACA
TAGCATTCATCCTATTCTTATATTTTTTGAACTTTGCATCAAAACATACATAAATGCAGGTGCACAAATTGTAAGTGTA
AAAGTCAATGAATTTTCACTAAGTGAACACACTTGGCTCACCAGAAGCTAAAGAAAGGGTGAACTAGAAGGGGACTTTG
TAGATTACACTTCCTGACACCATCATTATTTAAGAAAGAACTGTTTCCTAGGTATATTTTAGGACCTTTTATCTGGTGA
TATCTATCTACTAACTTTAGGGGTGGGGTGGAATTGATTCTTTTTACAAGATTAGTGAAGCTAGAAACAACTAGCTTTT
AATTCATTAAATGTAACCTACTTTCAAGTAGCTTCATGTGACTGAAATCAATCTGTTTTATTTTCCAAACCAGTGGAAT
ACACACAGGGTCATTACATACATTTTGAAAGTCTTCTGTTTCAAATGTATTGTAGATTAAGAAACAGAATGTGGCAGGG
CACGGTGGCTCATGCCTGTAATCTCAGCACTTTGGGAGACCGAGGCGGGTGGATCACTTGAGGTCAGGAATTTGAGATC
AGCCTGGCCAACATGGTGAAACCCCGTCTCTACTAAAAATACAAAAAATTAGCCAGGCATGGTGGTGTGCGCCTGTAGT
CCCAGCTACTTGGGAAGCTGAGGTGGGAGAATCGCTTGAACCTGGGAGGCAGAGGTTGCAGTGAGCTGAGATCATGTCA
TTGCACTCCAGCCTGGGTGACAGAGCGAGATTTTGTCTCAAAAGAAAAAACAAAAAATAGAAAAAGAAACAACGCTATT
GGCACACCCAGAATAATCACTATTGGACTTCTGATACCAAAAACAAGGGGGATTTCCTCGTTTTTAAGTTTTATGAAAT
GAAGTAATATTCTGTATACTCTTCCGAGTTTAGCTTCTTTGAGTAGGTTTGTGAGATTTATCCAAGTGTGGAATGGAGT
TATAATTTATTCATTTTTGGTTTTGGGTGATTGTATTTTTAAAATTAAGGTAAACATTAAAAGTTAGGGTTTAACCCAC
TACTGGGTATTCACCCAAAGGGAAAGAAGTCATTCTACGAGAAAGACCACATGCACAGGCCTGTCCAATTCACAGTTGC
AAAAATAGGCAACCAAACTTGTTGCCCATCGACCAACGAGTGGATAAAGAAAATGTGGTATATATGCCCTATGGATTAC
TACTCAGTCATAAAAAGAAACCAAATAATGTCTCTGGCAGCAACTTGGCTGGAAGTGGAGGCCATTTATTCTAAGAGAC
GTAACTCAGGAATGGAAAACCAAATATCATGTTTTCACTTACAAGTGGGAGCTAAGCGCTGAGGATACAAAGGCATAAG
AATGAATAATGGACTTTGGGGATGGGGGAGAGATTGGGAGAAGTTGAGAAATAAAAGACTACATATTGGGTACAGTGTA
CACTGCTCCGGTGATGGATGCACCAAAATATCAGAAATCACCACTAATGAATGTGTCCAAGTAAACAAAACCCACTGTA
CCCCAAAAACTATAGAAATAGAAAATGAATAAATAAAAGTTAGGGATTAAAAAGAAAGTGGGACATGGTCATTCCAGAA
GTCTAAAATATTATAAGCTATATATAAAATACAAGTTTGTAACTATTTTTTGAGTACCTGCAATCAGCAAGTTTGCATT
AATATTACTGTTTACTCCCTCACTTTTTAAAACAACTAATTTTCTATTTCCTATTTTAAGACCTTACCTAAGATTGCTG
TCCTGTGGAATGGTTCCTAGCCCACGTGACCTTGTCTGTGTTGAAGCATGAGTGAATACATACTACCATCTACTTTAGT
GAATGTTGATGATAAAATGGCCAATTTCATGTATTTGTTTATTTTCAAGAAAACCTTAGAGCACTCGTTCTCAAACTTT
AGGATGCATCAGAATTACCTGGAGTGCCAGAATCCCCTGAAGTGGTTGTAAGAACTCATTGCTGGGGCCAGGTGCGGTG
GCTCACACCTGTAATCCCAGCACTTTCGGAGGCCAAGGCAGGCGGATCACTTGAGGTCAGGAATTCGAGACCAGCCTGG
CCACCATGGTGAAACCCCTTCTCTACTAAAAATACAAAGATTAGCTGTGCGTGATGGCGGGCACCTGTAATCCCAGCCA
CTTGGGAGGCTGAGGCAGGAGAATCGCTTGAACCCGGGRGGCGGAGGTTGCAGTGAGCCAAGATGGCGCCACTGCACTC
CAGCCTGGGTGGCAGAGACAAATTGAAAAAAAAAAAAAAAAAAAGGAGTTTCTAGGCCCCATCCCCAGAATTTTTGATTT
TGTAGGTCTGCGGTGGGATCCAATTATGTACCGTCTAATGAGCTCCCAGGTGATAGTGACGCTGCAGACCTGGCTCCAC
ATTCTGAGAACCACTGCCTTAGAGCCTGCACATCAAGTCACGTTTATATTCCTGTGCCGTACTCCCCTGGTGAGGATTC
CTCTGGTCATTCATGCATTTACGTTTTTAAACTCCTTGGAATCAACCAGGTAGAGATTGTACTCTTGTTGTCGTATTTA
CCATCCTAAATCATTAGCATCTATTATCTTCCTCTGCCCTACACCACAACTCTGCTTGTAACCCATTTGGAGCGTGTTT
TCTATGTTCTTGCTTTGTTTACATATTGGTGGCCCCAACTATTTATCAGCTTATTAAAGACATCAGGCCACTATTTGTC
TATATCCCTGCACTGCCTAGCAGGGAGCACTGCAGGGACTATTGAATTCATGCACTGTATTCTCTGCTGGCCCATTGAT
TTCATCCTTATAGCCCCTGCTTCTCACCTGCATGTGTTTTTTTCACAATTTACATACTGATAAAATGAATTCTTGCTTC
TTGCTCATGTAAGAATATGGAGGCTGGGCACAGTGGCTCACACCTGTGATCCCAACACTTTGGGAGGCCGAGGCAGGCA
GATCATGAGGTCAGGAGATCGAGACCATCCTGGCTAACATGGTGAAACCCCCTCTCTACTAAAAATACAAAAATTAGCT
GAGCGTGGTGGTTTGCACCTGTAATCCCAGCTATTTGGGAGGCTGAGGCAGGAGAATCGCTTGAACCTGGGAGGTAGAG
GTTGCAGTGAGCTGAGATCACGCCACTGCATTCCAGCTTTGGGGGCCCCAAAACCCAGGAGTGAGACTCTGTCTCAAAA
AAAAAAAAAAAAAAAAGAATATGGAAGTTATAAAAATAATCTGTGATCATATAATGACTGTTTTCCCCAAAAAGGGCAT
TACTTTCCTGCTTCAAAGTATGTATTTCTTAACTAAAGTGTTTGTGGGATATGGCTGCGTGTTGGCATCACCTAGAGAA
CTTAWAAAAAAAAAATGAAAACAAAAACAAAACAAAACAAAAAACTGATCTTCATGTCCCAGAGGTTCTCTTCTAATTG
ATGTGGGCTGTGATCTGGGCATAGAGATTGCCAAAATTACCCCGGTGATTCTAACACATAAAAATGTTTAGAGTTTCT
TAAGTACTTTTTTTCCTGATGAGTTTCAAGAGGGCCACTTTTTTTTTCTGGAAGATTATTTTCAGAAACACCTAGCCCT
TCTTTATTTGTATCTCCTGTAGATGTTTTCCTTCTGAGTTTTCTCTGTGAAACAAGAAAATATAATGAACTGTCATTT
GCACGTTGCACAAAGCATGAACTTTATTTGGAGTCTTAGATAAACTTGTTCTGATCTAGAAATGAAAAATAATGAACTC
TGCTGAGTTCTGCATTTMCTGTCTGAAGTTAGCTTTACCATAAGGATCTGGTGGGTAAGTGTTTGTTGTTCTTGTCATT
AATTATTGGAACAGAGTTGTTTGGAGTAGATGATTCATTGTGGAACAAATCGTCTGATTTTGAGGGACATTTTCCATTA
TAAAATAATTATACATAAAAACAGAAGTATTGCTTTAATACTAAGATTTGTAACAATGCCATGTCATTCTGGTTGTAAT
GACTCTGTGTCTATTCCACTGGTTTGGAAAATAAAACAGATTGATTTCAGTCATATGAAGATACTTGAAAATAGGTTAC
ATTTAATCAATTAGAAACTAGTTGTTTCTAACTTCACTAATCTTGTAAAAAGAATTAATTCCACCCCACTCCTAAAGTT
AGTAGATAGATAGATATCACCAGATAAGTTCCTAAAATATACCTAGGAAATAGCTCTTTCTCAAATAATGATGGTGTCA
GTAAGTCTAATGTAAGTCCATTTTATTTTACCCTTTCTTTAGGTTCTGCCCTTGTATCTTAGAATAATGAAATATGAAG
TGAAATTTGGTGTCATGGTTTACCTGTAGCCATTTTATAATTTAGATTCATGGGTTTACATTACTTACTGAAACTACTG
GGGAAACATTAACAACACAATAGGATTCCTAGATTGATAAACTTCAACACTCAAGCTATGACAGTTGTTCTCAGTCTCG
TCTTTGATTCAATGTAAAAATTTGGACAAGTTAATTAGCTTTCTTTTGCTGCGTGTATAGGGGCAGGATAAACTTGAGA
ATTCCCACAATTATTCAACCCAGATCAAAGATATTTGTCTCAGGAAATCAACAATATTAAGAAAAATGGCTTTTTGAAA

Fig. 6.175

AAAAATTAAAAAAATGTTTAGCACCTTCAAATATCAGATTCACATCCTCATCATCCTCACTTAGAGATTTTAAAACTAA
TAGCARTTTTGTATGGCACATTTGCATTTACAATGCATTTTTGTACACATTCTATTTCCCCTAAACCCAGGGAGACTG
GAAGAGCAACAATTTACATATTTGCGTATTTTTAGAAAGTGAGTCTTAGAAAGGTTAAGTGACTAACCTAGGCTCAAAC
AGCCAGAAGTGTGTGGAACAAAGGCACCACACAGCTTTGCTGACTGTGAGCTCACTCTTTCTACTCCTCCAGCTATGCC
AGCTATACAATAGCAACTTGTGAGAGGTGTTAGGTGTGAGGGATAGTAGGGGGGTAGGGGTGGGAGGGGAAGAGGAAG
CAAAGTCCTCATACTGATTGTATTTTTATCACTTTTCTAAAGGATTTTATGTTTTACAGCCTATTTGTCATTGGTGGAA
ATATCTCTACACTGGTGCTATAAACAGCAAAACATGCACTTGAGACTCCCTGCAAGCCCATCTAAGTTTTAAGGGTAAT
TGAGAATAGCAGCACTTGATACACATATCTTCATTTACTATATAGTGTGATCAATTATTTTCCCTGATACTAAGGGAAA
ATTAAACATCTTTTCATTGGTTGTTGCATTTCTTTCACGGTGTTTTTAATGCACTTTGCGAGCTTTTGTAGTTCTCAAA
ACTGGCCACTAGATGGTAGTGTTTAGTTAGTATTGTCGCACATGTTCCATTGTGGGAACTTTGATTCTAATAGGAAACA
TTTCATATATAATACTGCACTGAAACTGTTTCCCCAGTGGCTGAGGCACACGATAAAAACTCTGTGGCTTGAGCCTTCT
TTTTCTTTTTTAATGACTAGACCTCCCTTCATTCAACACAGACCTTTCTTCCACATACTACTTATTCAGCAATTCATTT
TTCTCCCCATAATAGTCTTTTTAAACACCCCACAGTGAGGGAGTGTTAAAAGTCCTGCCTTTCGTAGAATTTTGCTCTA
AACTTCTGAGAGGTAAAGCAGATCTGGTGCCAAGATGATGTGTTCTAGGGAAGTACAAGGACAATAGACTTAAAGACCT
GTGCTGCCAGCTTGTGAATAATTGAAGATTTGTATCTCGAAGTAAATTTCAGAGTACCCCTGTACTTCCTTGGGTATCT
AAACCAAATAAGACAGAAGTTGTAGTTGCCTGGTATAGATACCACATTGCCAAAATTTTACAGTATTTTGGACAATCCA
ATAGATGTCTTCTCTCTGCTTTGTTTAAGCCTTCTAATTTCCCCAGCAAGACAAAGCAAAACAAAATTAATTCACACAG
CCTGTTTGCATGATATGGTCCGATGGTTTACTATGCTATGTTTGTCATTAGTCACCCAAGCACAGAATCTAAAAGTCAC
TTATAACCATTTCCTGCCCCCCCATGACTGCTGATTCTTCCAAAACCATAAATCTCCTTTACTAATTCACTTGAATAAC
CAAACCTGCATTTCAGGTTCTCATTCTTTACACACCCAATAAAAAATGAGATGCCATCTGTTATTTTATTCATTAAGTC
AAGTYCTGTTTCTCATGTTCTGCGGGAATTCTTCCCATGTGGTTTTACTGTTTGTTTCACTTTCTTCAATTTCCCTCAT
CATTACACATAAGCATTTATAAAATACCTCTTCATAAAATCCACTCCAGTCATTCTCTGCAGTTAACTCCAAGATCTCC
AAGATCAAAACAGACCCCAAAGTTGTCAATGAAACTGTTCACTTGCACAGTGCAGGGGCTGGGGGTGTGGTTACTTGGG
TGTGTGAATATGAACTTTCGGTTGTCTGAGGACAACAGGAAGCCTTGTTTCTGGTTGCTATCATATTAAACTTTAGTTA
AGATTTTTATTGTTTATGAGATAGGGAATTTTTTCCCCTGGGGGTCAACTGGGGTCACCCTATTTCCTGAGGGCTAAAT
AAAATTGGCTGCAATCCCCATCGTACAGATTGTGAAAAGTTCTGCTTTCTCTCCAAAGCTTTTATGAATCCTTGATCAC
ACCAGGCCACACATCTCTGCTTCAGCCAAATTGGTTGCGTTTAGGAGTTCTCTCACAGTAGCTGTCATCATCTCTTTTT
TCCATACCACAGAGGCTCAAGGTAGAACTGAGCCCCTTCCTTAGTTTTCCCAACCACCAGCCTTCCCTCTGCCCCAACA
AAACAAAACTTGTTCACACATGGGATTTCTGCATTGTACCACACTTTACTGATGGTTTGAAGAAATGGAAGCAATGTTC
ACCATAATGTGAGAAGTGACTGTGTTTAGACTTTCATATTCTTAAAAAGTCAGTTACCCAGTGATTTCTATATGGAAGG
TGTTAGCCTTTTGCTAGGTTTGCTTGGGTTTTTTCTTTCATTCCTACCCTTCCGTACCTCTCCTACTTCAAAAATTGCT
TATAGGAACTCCAGATTTTTCTTACTTAATGGCATTTAGTGCTTTACGTCTCTCCTGCTCCATCCACCTTTTAACTCCC
AGAACTACGCAAGTGCTCAGCAGAACAAAATGGGCTTTCATGTAATATTACCACAACTTGATAGAAGATATTTTTGGTT
ATAAATAGCTTTTAAAAAAAATTTTTTGGTGATTACATGTGGGTACGATGACTAAATTGAATTTGCTCTTCGTCTCAT
ACACACAAACACACACACACACACACACACACACACACACACACACACACACAGGCATTTATATATAGAGAGAGAGAGATG
GAGACTTGTTCTGTCATCCCAGCTGGAGTGTAGTGGTGCAATCACAGCTCACTGCAGCCTCAACCTCCCAGGTGCAAGT
GATCCTCCTGCTTCAGCCTCCCATGTAGCTGGGATTACAGGTGCGGGCCACCACACCTGGCTATTTTTTATTATTTTTT
GTAGATGCGGAATCTCCCTATGTTGCCCAGGCTAGTAACTCCTAGGTGTAAGTGATCCTCCAGACTCGGACTCCCAAAG
TGCTGGGATTACAAGTGCAAGCCCCCATACCCCCAGCCTTCTGCTCCTATTTGACCTAGAAATTCCATATAGTAGCCAT
AGCATTCATTCATTCAACAAATAATTATTGAACACCTACTTGCAAAAAGGAATTCAGTTCCTATTCTGTTGGGGTGATA
ATCTAGTAAATAATAATAATAATAATGAAAAGTGTCCATGCACTCTTCTAGGCTCCAATAATCCCTATGAAGAGAGGGT
ATGCTTAAACAACAGATGCTTATTTTCTCACGGTTGTGGAGGCTGGCAGTGTGAGATCGGGGTGCCTGCATAGTGGAGT
TCTAGTGAGGGCTGGCTTCCCCTATGCCTTCACCCAAAGTTTATGTGTTATTAATATCAGCAGCCCTCTATCTCTGGAT
GTCTCTGGTGCCTTAGAAGACATATTCTCTACAGTTAAAGAGTGATCCTCAAGAACGGACAGGGTAAATATATTTTATA
TTGCTAAATGCCCCCATTTGAAGGGCTATATACCATTTCATGTAGCAAGGAGCACTTAATGGCTCCAGCAGAACAAAAT
AACTCTACAGAAAATTTTTATTTGCCCAAAGCATCTAACGAGCTGGTCCTTCCATGCATGTGGTGGCACTCTTGTGAAC
TGCTTCCTGAGATCCTCTTAGTGCAAAGCCAACAACATTCAGTACATTTCCTTCACTTGCCTTTTGGCATGTCCATGAC
AATATTTCCAGCTGATCTAACTTCTAGAAAATCTATTTCCCACAAGCAACAGGTCTTCTATTTTCCTGCTTAAGAGTGT
TTATTTTTGCTTTTTTCAGCAGCTTCACAACTTCTGACTTGGTTGACTTTTTTTTTTTTTTTTTTTAGAGAGAATGTCT
CTCCTCCATCTGCGAAGTGCTGCATTTTAGGTTTGGTCTGACAATTTGATGCAACGGCTCAGGTATATATGACAAGGAA
ATGGAATTTCTATCCTCGAAATCAATTCTGAACAATAAAAGCTGAGAGGATAAGTTTATTCAAAGGTGATTTGGTATTG
CGACAGGCTGCTCCAAATCAGAACTCAGCAACCTGATTTTGAAAAATTTCCAAGTTCATGAAAAGAATCACTTTGTACA
TAAGGGCTTTCTACTTGTTTGGGTTTGAGCATAACTAGATAGCTTAGTGGGATATCCATATTCTTGCATTTGATGATCA
CATTTGGCATCTAAATATTATGCTGTTTTCAAATGAAAGAAATACTGCTGAATAAGAGAGCTAGAATGAATTACATACA
AAGAAAACTTAAAATAAGTGTCATCTAAGAAGATGAAAAAGCAAACAAGTACATATGTTCTTAACTTTTGGGGGCTTGC
CTTTAATTTTTTTAATAAGGCAATTATCTGCTATTAGTAATTATAATAGGAGCTAAAATCCAGTTAATAGTCACTGTGT
GTGAAACCCTGTGCTGAGCACCCCAGGGTATGGCCTCCAAGAGGACACACAACACTCTTTTTGGAGAAAGCTGAAGACA
GTGGGGGCAGTGACTGAAGGTCACGGAGTTGGTAAAAGGCAGAGCCAAGCTCAAACCCACACAGCCACATACCTGCAAC
TGTGTTGTTAGCACTGCACTCCCCAGTTACCAAAGCCTTGTTTATTTTCCAGTCCTAAACTCTGCTTAAATGTGCATGA
AGAGTAATTTCATTTTTTTTCCTTTTCTAGACTGTAAATTTGTATAATTGGATTTCTACAGGCTTTTGTGTTTCTGGTG

Fig. 6:176

AGATTCAAAATGGATTTTTCAAAGTTACGATATTCAGTGACTCCTATAATCTAGAAATTTCTCCCAAGACACCAGACTT
CCTCCCTGATCTTTTGACTAAAAGCCTGGTCCCCAGCTGTATTCATTTCCTAGGGCTGCTGTAAGGAAGTATCACAACC
TAGGTGGCTTACAACAGCCAAAATGCATTGTCTCACAGTTCTGGAGGCCAGAAATCCAAAAGTAATGTGTTGTCAAGGT
TGTTTCCTTCTGAGAACCGTGAGGCAAGGATTTGTTCCAGGCCTCTCTCCTTGGATAGCCGTCTTCTCTCTTTGTTTCT
TCATAGTGCCTTCCTCCTGCATATGTGTGTGTCTGCATTTCCCCATTTTATAAGAATTCCCCTTCACATYAGATAAGGC
CCACTCTAATGACCTTATTTTAACTCGATTACCTCTCTAAAGACCCTATTTCCAAGCAAAGTCCCTTTCTGAGGTACTG
GGGTTGGAACTTCAGCCTATTTTTGCAGGGACACAATTCAACCCATAGCACCAGCTCTGAACCAGGGTAGTGCATGGAG
GTGGAGACCTAGTACCGTGCTAAGGACCCCAGCCGACAGTGTGGTCCGAGGCAAGTTTCCCTTCTGCCCAATAGGGGAT
TGGATTGACTGATTTCTACTGTAATATAGTACAAGTATATATAGTAGAAGTATATATATAGAAGTAACATAGAATTCTA
TTTTTATAGAATGGCTGTAATTTATTTAATAGGTTTTCTCACTGAAGTAATTTCATAAAAGTTTTTGGAAAGTTGGCTT
CATCCTTCTACTTTCATGCATTTGCCGCAGAGATTAAGTGTCTGCCAGGTATTCTTTCAGCGTGATCCACCGGGGAACC
CACAGACCCAGCCTCCTCCCACTTTCCTTTTCCTTCTGAGATCTCTTTATTCTTCCTGTTCTGTGTCCAAAAAGAGGAA
CCAACTGCCCCCTAAGTCTATCCTCACATATAGAGCCTCTTACATGACAGGTGTCAGGAGAAACTAAAAACGATTAGAC
TTAGAAGGAGCTAACTATTAAATGGTGAATGCTCAATCAATATTCATTAATCAGGAAGGTTGACCATTGACTTTACCCT
CTGTGACTTCACTGGCTCTTTCACAGCAACGATTCTTGAGAAAATACATGGCCAAGCCTTACATTAGCTGATCTAGTTT
TCAGAGCCCCGCTAGGATATGAGTCCTGGTATTGCAGATGAGGAAACAGGGTCTCACAGATACACAGAAGCTCCTCTGG
GTGCACACAGTGAGTACTGGGATAGGCAAAGGCTGAACTCAGGCAGCTTCTCTCCAGGATCCACCCTGAGTGATGAGCT
GTGTCCCAGGCTGGAGAAGAGCCATGCTGCCCACTGTCTGGGCCTATCTACAAGCTCTTTCATTCATTCTTGGATTTTT
CCAGCTGAAAAAAAGTGTTATATGAAGGATCAGAGATGGCATCTTAAACTTTTTTTGCACAATTCATCATTAATTCAC
TGTTTTTTAAACTGTTGTCACAAAGAGTTGTTTTGAATGCCTTGATGAACTATGTTTTGTTTGTTTTATTATATTTTCA
CTTGAGATTTTTACTGTGAAGCATGCTATTTTGAAGACAAAATTTTTAAAAATAGAGAAGGGCAAGAAGAATGGTGGAC
AATGCAGGAGGTGACAATTGGTATAATTACAGTAAACATTTATAGGTCAGTGGAACATAAGCCCTGAGGGAAGGCTCTG
AAAGCGGACCTGCAAGCAGGAGGGAGGGAGGGAAGGAGGGAGGCAGCCCTCGCAGGCTGCCGGGAAGCACCAGGGATGT
CGTGCCTCACTGTGCCAGCCTCACAGATGGCATCTCAGCGACATGGCTGTTCTTTTGTCTTTTCTTCATGAGCATCTTA
GAGAAGCGCATTTATGCACATTTCTACCTACAAAGTTTTGCCTCAGTGTGACTCATCTTCTTTCTGTCTCAGATAGGAT
TACTCTTCAAAGGAAAGATAAAAAAACAAGTTCTGAATATAAAGATGAAGCCAACTGCAGGGCTTGTTGAATTACCTCA
GAGATAGCTAGAGTTGTCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGCGCCTCTGTGTGTGTGT
CTGTGTATCTGTCCATGTCTGTGTGTATGTCTGTGTCCATGTCTGTATGTGCATCTGTGTGTGTGCATGTGCCTGTGCA
TGTGTGTCTGTGCATGTGTGTGTATACACATGAGTGCAATGTCCCATATTGGCAAATACCACATGGTAACGTCCTGCAC
GCCACAGGAGCTGTATATATGAGCTGTATTTTCATGATGGCCCACTGGGATAGGGATTAAATCAGATGATCACCATTTA
TACCTAAGTAGTAACACTTAAAAATGCAATTGCTCTCTGTCACCACGGCTTAATCTATGAGCCCCTAAGGGGAAAAAAT
TCTTACATTAAAAAAGCCATTTCATATATAGATAAATGTTGAATAGGCAGGTGTTGATCAGAAGGTCTAATCCCCATCC
ACGTGAAATGAACAAGTCAAGCAGATAATTGTTTTACTAGAGCTTTCCTTTGCATTAAATGTGCCTGGAAAACATTTCT
AAAACCATTCTTTTCTTTTTGGTTGAACCATTATGAATGAATCTTCATCCTTTAAAAGGCTAGATGTTCATGTTCAACT
GTTTTGGCAACTGACCTAAACCAATATTATTATGAACACATTTGGTTGTTTTGGTTGGACATTGGTAACTGCCAGTGA
AGTTGGAGGTGAGAGGAGTTAACTACTTCCTTATAATGTCACCACCTAATTAGAATAAAAGCATCTTAGATTAAATTCT
GATTTACATAAGGACATTTATTAACTAAACAATTATTCAGCAGGCATGAAATAAACAAATCATATGACTAGTTCTCTCT
CTAGGTGCTTGGCCACCGTTTGCAAGCTTCCCTTAAGGCACAAAATCCAAAATTCCAGAGTCAATATTTCATCATCACT
ATAGACAAAAGTTTGTGGTATTCACAGCTGGACGCTGGACATCTCCCAGGACGTGGTTCCTGAGTCATTCTGCCTCTGA
GTGTGTTGCTCCCATGGAAATCATGCACCTCCACGGAACTCACTCAGGCTCCTCGGGGACTCCTGAGTCTGCAGTCAGA
TTGCTAGTCTTGCTCTGATTTCCTACCTATCGGACATTCCATTTGACTGTCTTGCCACTGAACTCAATGGGTGTAAGCT
GACTCTTCTTCCCTGCATATCAGCATCCTCCTGACTTCCCCACTTCTGTGAATGTCATGATCATTCTTTCTGCCACCTA
AGCTTGAAGCCTACAGTCATTTTTTAACACAGCCACCTTCAGCTCCAATTCCAATTCCAATCAGTCACTCTTTTCTCAA
ATCTCCCTTCATACCAGTTCCTGTCCTTCTGTCTCTTCTACCCTAAGCCAGAGCCATATCTCTGCAGATCAAGGGCCTT
TTTGTTCTGTTTCTTCCCCAGTCAATTAGTTTACATGATGCCAAACCCATCTTCTTAAAACCACCTGGATTAGATCACT
CCTCTGTTTGAAGATTTCCAAAGAGGCCTTATTTTGTAGTGGAAAATGTCCAAACTCCTTTGCATATTCACTTATTCTC
AGCATGCTTTTACCACCTTGCGTTCTTCTCCTTCACGGCACAAACCTCTATGCCAGCTGGATTTTCCATCCATAATCCC
CCAAATACATCACATGCATTGTTGCATTGGCCACCCTTGTTAGTGCTTTTTCCATGTGGTGTTCTTACTTTCCTCCTTC
ACTCCATGCCCACTTCCTCAAAACACACACACACACACACACACACACACACACACACACACACACACAGCTTCTTGGA
GCCTCAAAGTTGGTTGCTAGTATTTTAAGTGCCCGGAATTTGAAATGAAAAAAAATAAAAGTAAACTGGTTTTAAATGT
AGGCGTTGCCACGTATTGGTTCTACTGTGGCCTCAGACTTGTTATGAAATATTTCCAAGCCTTAGCTTCCACATGAGTA
CAATGGGAATAATGCCTACCATCCTATTGCCCATCCTTAATTAATCTTAGTTCCGTTTCTGTGCCACGTTTCCTCCCCA
GGGAAGCCCTTTATACCCTTACTACTCATGGATTTATCTCTTCTCTGAGCCCATAGAACTGAGTTCTGTTGTCACTGCT
TTAGTAAAGTCACCATTTGCTTGTTTAAGGTCCCTCTTCTATTTTCACTTATTGTGTTTCGGAGCCACACATTGTATCC
TATACTAGACTTTGAAAATACTTTAGTTGCAGTGCATTATTTTTGTGTAGTCAGAGTACCCAGGGCAGTTTCTCACACA
TTCTCTCGTTTTGTCTCATAACATCCCAGGAGCTGGATATAATCTGTGATTTATGAGGAGAGAAAGTGAGAGACAGAGG
TGTAAGTGAGTTGCCTAAGGTCACTCAGAGAGTGAGTGGCAGAAGCAGCACTTGAATCAAGTCTTAGGATTCTAAGCCC
GGGGCTGTCTGCTCCCTCCTAGACCTGTAACTTTAGAAGCAGGAATTTATTTCATATTGCTTATATTTCAGTATTTATT
TTTAACCCTTACAGGGCCCGGTCTTGTGACTGACTGTAATTGAGAAGGTACTCTACAAATATTTTTGAAAGAATAAATA
AAATGAATACTACAGACCATGTTAATAATGTCAATAACTCTGGGAGTTTGAGGGATAATTCTGTCAATACGAGTTGAG

Fig. 6.177

GGTGTGCTTGGCCTCTCCATCATTTACCCTGCTTTTATGAGGGTTAGCAGCACAATGTCTTCATTCTAAAACACAGAAT
CATGAGGTTAAAGAAAGCATGCAATGCCATCAGCTGAGAAGAACCAGAATTCACAGTGCAGGTTCTCTAAAGTGGTTTT
GTGTTGCTCTCAGCGCCGTGAACTCCCACCATTATATTCATAGCTTTTTAGCCTTTGGCTAAGATCAAGTAGAGTGTTT
GTTCTCCTGGCTTTTAATAAGTAATGTGTTCTCCATCCAAGGACAACATATTTAGGCTGTACATGCATTACGAAGTATT
AAGCTCCTGTAACAGTAAATTTCTCAACAGGAGATTTATGTGAATTCTCTTGGATGTTATTCTGTTGACATTAGGAACA
ATTAGGAATATAAAATGCCATGGCAGATTTTTCTGTGATGCTGGACGTACTGTCAGGACTCTGAGTCTGTGTACTCGGA
AGTCTTCCTCAGACAGGGACAAGGCGCATTCTCTTTCTTAGGAAGAGAATTAACAGTGCACTCCCACCTCCCTGTGCTC
ACCACATGGGCACACATCCCAGGGCGAGGGTGGAGTGAGCTCAGAAGAACCCACGCTGAGCACAATGAAAGCAAAATTA
TTATCAGAGAAAGAAACAGATTGCAGCAACCTGGGTTTAACAGGACACATAGTAGTAGACAGGAAGTTTTTCGTGATCT
ATAACACATTTTCATATTAGGGTCATGTTAATTTCACAATGAATTGCATATTAGGCTCAATTAGAGAAACAATAAAGAA
GGAAGACGGGATGACAGAAAGCATTGAAGAGGAGGAAGCAGAATGGAGGCAGAGGGTGGAATCAAAAATAAGGACAAAG
AGAGGAAGGGGAAAGAGAAAGAAAATGAGAAGTAACGTCAGCAGCTCCGTAGGTTCTGAGGTGAGTTAGCTGGTCGTAG
GTCAACAGCTTTAGTCACACATCCTGTTATTCACTTTGGGCATCAGAGCACATTTTCACTACCCTTTGAAATTTCCATA
CAGTCTACAGCGATTTTGTAGCAATCTTTCTTTACCGGGAAATTGCTTATCTGCTTTTCTTTTCAATCTTTGAGGTCAA
CTTATTAAAGGCTTTAGTTTCACATGAAGCCCGAAATATTTTGAAGGTAAGAAAAAAATGTGCCTTTGGTCTTAAATAT
TTCCACTTAAATCTTGATTCTGGGCTACTTTAATAATTCCAAAATAAGAGTGAGTGGCTTCTTTTTTCAATAACTGAAA
TACAACATTTAAAAACACTCATGTAATTATTTTGCTGTGTTCAGTTGTTTGAAAGTAGACAAGGTTTGATTTGACAGAG
CTGTGTTTTAACCTGGGCTCTACATGTCACTAAACTACTGTCCCCTGTAAGCTCCTGTTTCCTCGTCTACAGATAGAGG
TACTCCAGTAGCTCTCCAGGCTCTGTGTGTCTCTGTCACAGGTTTGGCATAAAGTAGACAGGAATGGTGTCAGTTCCTC
CCTCCCCAAACTCTCTCCAATGACACTCCCACCAAGTGCAGAAACGTACAGAAAGAACTCTTCCTGCTTTTCAACTTCC
ATTGATCACACTGAAAGAAATATCACATTAGCTTATAAGGCTCAAAATTATCTTCAGTGCTATAGCTCTGTGTACTCTA
AAATCAGAGCAACATAACTTTGGTTCTGGATGAAATCGAATCAGGACCTGACTCTACTCCTAGAAGAACGCTGACCCCA
AACTCCTGTTTTGCAGAACCCTGAAGGAGCAAGTAAAGATGCCAGCCATTAAATATGAAGACCTTCAGAGACCTAGAAC
TAATGGAACTAAATCAAGGATTTCTATTTTATCTTAGATTAAAATGCCATTTATATGCATTCAGGGCATAGTTTTCACT
CCCATGAGGAATAGATTCATACCTGTATAAAGCTGGGAATATAATGACTAATTAAATATACTGTATGACTTCAATATAG
CCAAGAAAATTACAATCATTCCAAGTAATACTGTTTTTCCCCAGACACAAATCTGAGGATCTTGAATCTTAGCACTGGA
AGGAATGTAGACATCACGCAGGCTCATCACTTCTCTGGCACAGAACTTGACTTGCCTTGAGCACATGTCTGGTAGCTTC
TTCCTGGGAACATAGATGACATAACGCATATTGCCTTTCCAGGCAGCTTGATCTGTCATGAGACAGCTCTGGCCTTTTA
GAAACCAGCCTTTATACTGAGCTGTGAGCCTGCTTCTCTGTATTGCACATTTTTTGTTCTTAATTCTGAACAAAAAGTT
TTTGTGAATTTTCTTCCTGGAAATGGTCTTCACCACTTGAAACAACTGTCATGCCCATCTGAGCATATTTCTTAGGTGA
GGCTTCCCAGTTTGGGAGACGCTTCTCTCATAAAATATTTCTGAATTCATCAGTATCTCTGTTCCTATAAAACGCGTGG
CTGTCTACTTCAGGCAAATCCTAACCAAGCTCAGGTAACAGTGAAGTGATTGTTTGCTGTGAAACAGTATTGTACTGTT
GAAGTTAAAGAGGTCTATGATTACATTGTGTTTATTTTGGATTTTGCATTATTGAGTATTTTTTACTTTATTTTCTTTT
TGTAAAGCCCATATCACTACCTATAACAAGCTTTTGATAAGTGAACTTTCTAATTTTTCCTATTCTATAGCTATGTAAG
GGAATCTTTAAATTTTGCCAGGACTTTCTAGCCTAATGCAACAAGGGAGGTTACATTAACTATAATAATTTAAATTTCA
TTAGTTTTTTCCCACATTTGCTGAAGCAATTCTTCTACACAATCTATTTCATTATTTCTGGGAGTTCTAAATGTGTCCC
ACAGGAACACATCCCCCTTCTTGGAACCACTGCTCTTCCACCAGAACCAGCAGCTCTCTGGACTCCCCAAGGCTTATTA
GGTCTCATTGTTACCCAGGGAGTCAAGCAGCTATCACAAGGCCATGCTTTGGCTTTGTAGCTGCTCCAATGGATGTTAA
AATTTCTCACTTTGTTCCTGATACTGTACGGAATTATATGCAACATCTCTTTACTTAAAAGCTCTCTGCTTCTCCCAGG
ATCCAGAGATTCATCCCTGGAAAAGCATTCAAGTGCAGCTGCCATATTCCATTTAGAATGCCTCCTTCCTTCAGACAGC
CAAGGTTTTGTTATTGGGCTCAGCTCTATGTGCCCAGCTCCTTCTTCAGTACAAGGAGCTCTCTCCAAAGAGGTCACTA
AATCCCCTGCAAATAGTCTTTAACTAGACCTTTTCAAACCTTGTCTCTTTTTTTTTCTTTGAAATGACACTGTACCATGA
ACATTTTTATGAAATCATTAAACATGTTAAACTTCATCAAAGCCATCATTTTAAAGTCTTCCATGATGTCTATCTTATA
GAGATACACCATACTAGAATGCATTTTTTTCATTTTTCTATTGCTGAGAATGTTGGGTTTTATACATAGCTTGTTATTT
TAAGTAAATGTTGTGCTTTACCTTGTTCCTATTATACTTTTAATTCAGCCTACTGTTAGCATCTGTGGATGATTTTCTA
TGCTTATATGTCACTCAATATATTAGCATCATTCCCAGCTTTTGGCTTTACATATGCATTTTTAAGATGTGTCTCTTAC
CTTTTAACCATCAAATCAGATTTTAGTTGCTTGATAGACCCAGCTTTTATATTTCAGTTTATGCCACCTCTAAGGTCGT
TGTAGTGAGATGCCTATATAAAAGACATACAAATTCAAGGAGTGAATTAAAATCTCACTTGAAATTTTAAATGTCACTG
AATATTAATTGTGGTCGCTAATTGGTATATTTTCTAGTAATCACTTCAAAAGCTCCTCATTAAAAATAAATCATAAAAA
TATAGAATTATAAGAGCTTTTAGGTATAGTTCAATGATCTAATTCCATCCATTTATCTGTCCATCTATCCTTCAGCAAG
TCATTTATCACCTTCCTTCTGTATATTACAGATGATAATAAAGACATCTGGGACAAAAAGGTAAGTCACAGACCTACCC
ATGTGTATGGGTGATAGAGTAGTGAATACAAGTGACAAAGGGTGTGATTCCTTCTGTTTGAGAGGTGAAGAAAGTATTC
CCAAAGCAAGTGACATTGAATCAGCACCTTAAGATAAAACGAAGAACTCAGCAGAAAGAAAGTGAATGGGAAGATGTGG
TAATAGGTTTAAATGGACATGGCATGTCGGCAACTAAATTTCTGTAGCTCCAGAATATTCTCCCCAGTCCCCTGAGACG
AAGTTACAGAGCTGTGAATCCGGTAGTGAAAGCCTTGGTATAAGGCGCATAAGAAATGTGCAGATTATCTACCATGAAA
TAGAGGAAGAAATCAAGGTTATTCAAGTAGAGGAATGACACGTTTTAGAAAGACTTTTGTTATAACGTTATGGGAAATG
GATTATAGGCTGGAGGCAAGAGATAAGACATTGTCAGTGTGACAGAATATTTTATTAATAAAGCACATAATTTATACTC
AGATCTATGTGAGATGAGACCAATTCATGTCAACATGTCCAATGTTTTTGAAAAAATGCTAAGTTTTTATTATCGCTTT
TGTTTATTTCCCTGTGAAATATAGTAGGCTAGCCCTCTATTTCTCCTGGCGAAATCTTTAGATAGGTGGAAAAAAAAAT
GTTGAAAAAGGGCATCAATGACCTCTTTTATCTTGGTTTTATCTGCCTTTTGGAAGATACTTGATTCAAAGCTATGAAA

Fig. 6.178

AAGCATCTCACCAATCCCGTATTTCACTTGGTTGGACGATGTGTCAAGAGAACGCCTGAGGCTTCCTCTGTCCGTTAAC
AGGCCAGTCATGAGTCACAGTCTGAACATGAGGAAATGTTCATGTACTTTTTCATAGTCATGGCAATGAGACTTTTTTG
TGCCCAAAGTACTATCCTCGCCTAAAGTCCCTGTTAAAAAGGTTATTTTCTGCCACAGGCAGGTAGCAGAATGTCAAGA
TCCAATTCCAAGTGCTTCATCATCACTCGGATAGCCTCAGGAAGCTGAGGTTTTACAGCTGCCTGGAACCCACATGCTT
CATGTGATGTAGAGCAGCCCTGTTAATTAGCTGTTTCAGGATTCTTAATGCCCTATGGCTTTGGAAACACTTGTTAGCC
CACAGAGGGAGGGGAAGAGCTGGAAGCAATTGGACTACAGCCTGAATTTATTTTAATTCAATTCAGTAACCACCTTATC
TTTCTAAATCCCTGTTTAGAATCTGTTGAAAATTATAGTTGATTTAAGTTTTTCTCAGTGATGCATCCTGAGAGAAGAG
GGAGATTACAATTCAAGGTTTTCTGAAGCCACAGAAATGTGGAGTGCTGCAGAAAGAGCTGATCGATGGAACTTTCCAG
ACACATGTATGCAATTTTCTAAAGGCTAGAAAATAGATGCCGGGGATGGGGAGAGGGGAGGCCAGTTGATGTGGAAAGG
CTTGTGTAGAGTGCCCACGAGTCTGCATTTCTGTTCACCTACCAGAAGAAACACTGCCAGTTCCCCCCACCCTCACCCC
CCAACCATTCTCACTGCAGAGAGCTGGCACTCAACAAACTCATAATTTTTCTCAATACAATTCTCATGACATAACCTGA
CCAACCATATGAAACCTAATGAAGAAAACAACCATTGCCATTGGCAACAAATGCAGGAGTTGCATCACAAGTAAACCAC
ATACTTTACTTCACAAATTTGAACATTAGAGTACCACCGGCAAAAACATGGTACCATCCTTCGGTATGGATGAGATATC
AGTTTACAAAACCTTCACTGGAAAGTCCATACCAAAATTTTTAAAATGCATGCAAAAGCTAATTGTGTTGACATCTTTC
TTATCAGAGCTATTGCAAATTATTTTGTCTAGAGGTGGTTCTTAAAACAGCCACCTGTCTGTCCACTAATCATGTACAT
AGCATCCTCTTCCTCATATTCATCCTCTGAAATACCAAGAGGTGAAAGAGTGTTTCAGTAGCTCACCATTCTTGGCTGT
TACATAATGGGTCAGATTCCTTTCTGAGTAGTAGGAGAGGTCAGTGATCCAGATCTATATATCTTTGTGCTTTTTCCAC
TAATACATTCTTAGAACCTAGTAGGTGCTCAATAAACGTTAGCTGTATGAATGAGTTAGTGAATCAATGAATGAAGTGT
TAATTTTTAGAAATATTATGGTCAGAATTTTACTAGGAAAAACATTTCTTATAATCACAAATGAAAGCTAGGTTTACTC
AAAATTGGGAATAGTAAGTAGTCTTTCCATTTCCCATACCACAGGTATGCTTGTATTCTTCTTATATGCTTATGAAAGA
AGAGAATGTGGATTAAGTTATAAACTATTTGTACATGATATTGTATATGTAAAAATCATGTCAGTTTTGAGGCCAGGAT
TTCTTTGTATTGAGTAAAATTTTCCTAAATATTTGCCCATTGTATTAGTTCATTCTCACATTGCTGATAAAGACATACT
CAAGACTGGGTAATTTATAAAGAAAAACAGGTTTAAGGGACTTACAGTTCCACGTGACTGGGGAGGCCTCACAATCATG
GTGGAAGGCAAAAGGCATGTCTTACATGGTGGCAGACATGAGAGAAAATGAGAGAAAAACCATGAAAAAGGGGTTTCCC
CTTATAAAGCCATCAGATCTTGTGAGACTTATTCACTACCATGAGAACAGTATGGGGAAAATTGCCCCCATGATTCAAT
TATCTCCCACCAGGTCCCTCCCACAACACATGGGAATCATGAGAGCTACAGTTCAAGATGAGATTTGGGTGGGACACA
GCCAAACCACATCACCCATTTTAAAACAGGCTTGATATCAATTTATTGCTAGAAAACTATAATTTGTATTTTCTTTTAC
ATTTTTAATGACTGATTGTACATTTGTTCCCTCAAAAGAGGCTCTCCAAAATACTGCCTAATTCCTATGTTAATAGCAA
CCCAAACATGTTTTCAATACTAATATTAAAACAAATTAGCTTAACAAATACAAAAGGTAATGCCTGGTTTATACAATAC
GGATTTGAGAAATGCAGGTTTCAACCTGTTCCACACCATGCCCTTCATTATATTCTTCTGCCAGAGATTTTATTCTTTA
CTTTTCATTCAATCAGAAAGAATTGAGAGGAATTTGAACCCATTCTGCCTATTTAGAATATCATTTGTACTGACTTTAA
TCTTTTGCTCCTAATCCATGAATTCCTGAGGTCTTTTATTTACATCCATAAATTTGAAAAGCACAATCCCCTTTTTTTT
TTAAAAAAAAAAAAAAGGAAGTTACTTTTGGGAATCAGAGACATGTACCTCTTTGTTCTCTTGGAGAGCTGTGGGTTAT
GGGAGGGAACTCCTCATCCTGTTTCCTGATATGCAGTGACTTCTCTCTTACACAGATGAGTCCTAAAACCTTTGTGAGC
TCAGACAAGTTGGCTGGTTTTATTTTTATTTTTTTATTTTTGAGATTGTCTCACTCTGTCACTCAGGATGGAGTGCAGT
GGCCCAATTACCAACTCACTGCAGCCTTGACCTTCCAGGCTGAAACCATCTTCCCACCTCAGCCTCCCAAATAGCTAAG
ACCACAGGTGCACACCACCATACCCACTAATTTTTTGTAGAGATAGGGTTTCGCCATATTGCCCAGGCTGGTCTTGAAC
TCCTGGTCTCAACCAATTCACCTGCCTTGGCCTCCCAAAGTGCTGGGGTTACAGGTGTGAGCCACCATGCCTGGCCAAG
TTGCCTGGTTCTTTACATGGAATGTTCTTTACATGGAATGTTCCAGGATCAATTAAACACAGATAAATAACAACTTATG
TTTTGTAAATAAACACATCTGAATGGAATCTTACTCCAATTTAGATAGAAATTGATATTTTTCCTTTCAAATGAAATAA
ATGTTTTAGACTAGGACATCCCAAGTGAATTGAAGATTGGTACAGGAGCCTGAGGAAGGAAGTTTAAGAGAGTGAAAGC
ATGAGAGAAGAGCCAAGATTATGTAGCCCAGAGAAGGAAAGAATTATTACCTACCATTACTTTAAGGGACTGTGCTTCC
TCACAGTAGTGGAAGACAGATGCTCATTTTTTATTCAAGACTGTGTAAAATAAATGGCCTTAATTTATAGATGTGGATG
CTGGTTTATATCAATACACCTCAACCTGGGATGGCTCCAAATCTTGACTACACATGGGAATAACTTGAGGAGTTTTACA
AAAAAACTGATGCCTGGGTCACACCCTGAGAGATTCTTATTTATCTGGTCTGGGGTGGTGTGGCCCAGGCACTGAAATT
TATAAAATTCTCCGGGTGATTCTAATATGCAGCCAAGGTTAAGAATGCAGCTGTACAGCTGTAGATGGAAGAATACCAA
AACCAGGCCTTCTGCTAGTGCCTGAGCTTCTCCTCATTTTAGTTTCTGTGATGTGTTCAGACATTGTTTCTAGAATCTC
CTGGGTAATATGAGTTATAGTCCTTTGGATGGAGTAATACATTAACACATCCATACTCACATAGTTTGGAAGGGGCCAG
GATGCAAAGGGAAGTTGGAGGAGGAAGAGAAGGAAATGGTAAAGTCCAAAGCATGGGTGAAGGGGGGCCAATATAAACC
CACAGAGCAAAAAGGAGATGTTGGGTCATCATATTCTATTACATAAATTGGATTTACATTTCCTTGTCTTTCATTGCTG
GTCTTTATTCCCACAAGTCTCCAAATACAGTCATAAAATTCTCATGAGTTGTTATAGCAAAATTGCTTATCATTTACTA
TTTCTTAAATGAATGCATAAACTGTATTACTTTGGCAGAAAGGATGCTGCTGGGTATCATATGTAATGTATACTAGTAA
GGTGGACAGGACCATTAGGACTTTAAATTCCTTTATAATCTCAAAAGTCTGTGATTCTGATCTTCCTGGTCTTGCAACT
CCAGAAAAGGTGGTAATCACTGGAGTAGGCTATTTATGGGCCTGTGAGATAGTGAAACATGCTATTAAGACAAAATGAG
AGACTTCCTTCTCTGAAATGGTTCCATATAAAAGTAATATATGGCTTAAGTATCCAGGGGCTCATGTAATCTCTCCATG
TCAGTATCTTTTACGGGGAATTATTTAACCAAACATGTATTGAACACTTACGTGCTACACTAAAATCCCAGATTTGTCA
AGTTCCCGTTTAAAAAGTGGGTACTAAGCCTAAGATATTAGCAATACTTGTATCTGAAAAGGCCTCACATCTAGAAACT
ATAAAGAACTTCTAAAAATCAATCAAAACAACATAGTTCTTAGAAAATCACAAAGGAACAGGTTTTTCAGACTCGAGGA
TGTCTATATGGTGAAAAAGCAGCAGTATTTTAGAGTTGGTCTGAACTGACTCACAGGAACCTATTTTTAAATGTCCAGA
AATTTGCTAAGCAAATTGTTAATGCATCAATTATCTAAAGTTTAATTATGTAAACTTCAAGTTATCTGAAAAACATAAC

Fig. 6.179

ACATACTCAAAACTCTCATCCCTTCCTAAGTGTTTTACTACATTCTGTTATTTCTGTTTGTGAGGTCATTTGTTTATTG
CATCTGTATGATGGAAACACTGTATAAAATGACATGTTATTCCCAACTCCACATAGGCTGATATAACGTTGGTAGCTTA
AAATCAGCTTTAGTCCAGGTATTTATACAATGGAAATGGAAATCAGCATACGCCACAAATCAGGAGTTGATTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTGAGATGGAGTGTCGCTCTGTCGCCCAGGCTGGAGTGCAGTGGTGCGATCTCGGCTCA
CTGCAACCTCCGCCTCCTGGATTCAAGCGATTCTCTGCCTCGGCCTCCTGAGTAGCTGGGATTACAGTTGCCCGCCACC
ATGCCTGGCTAATATTTGCATTTTTAGTAGAGATGAGGTTTCATCATCTTGGCCAGGCTGGTTTTGAATTCCTGACCTC
GTAATCCACCTGCCTTGGCCTCCCAAAGTGCTGGGATTACAAGCATGAGCCACTGCGCTCGGCCCAGGAATTGATTTTT
TGTTTAATGGTGTTGACTGTCTACAAACTGATTAAGAAAATGTTATTAAAGTTGTACATCATGTCTGCAACCATTAAAT
TGTAAGTAGCACAAAAAATCTGGGGGAAACAGTCTTCTAGACTTTCCAGATGCAGCAAAGAAATTGCCTTGTTCCAACA
TACATTTTTATTGTTTCACTTTTGTCTTACTTAACCACTAAGTAAGACATAGTTCCTACATAAACCAATCATGTAGGAA
TTACACTCCTTTTTCAATTACAACTTTGGTTTGATTACCTTTGTGGTCTTCTGTTCTATCACCGTCTTTTTTTTTTTT
TTTTTTTTGAGAAGGAGTTTAACTCTTGTCACCCAGGCTGGAGTGCAGTGGTGTGACCTCCGCTCACCATAACCTCTGC
CTCCCAGGTTCAAGCGATTCTCCTGCCTCAGCATCCTGAGTAGCTGGGATTACAGGCACCTGCCAGCACATGTGGCTAA
TTTTGCATTTTTAGTAGAGACAGGGTTTCACCACGTTAGTCAGGCTGGTCTCGAACTCCTGACCTCAGGTGATCCACCC
TCCTCAGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACTGCGCTCAGCTCACCATCGCTTTTAGATAAGGAAACT
GAGCCCTAGAGAGTGGTTGGCTCGCCTCAGGCTCCAGGACAAATATGACTTAATCAAAACTATACTCCTGTTCTTTCAT
TCACATAAAACTACTTATCTAAGGATGCTGCAGCAACACTGCTGTCAGGCCAGAATTCAGTAAGTTTACAGCTGAGGCC
TTATCTATAGACCATTGATTTTGCTCAAGGAAAAAGTTACACAAACTAGCAATAGAGTCCTGACCAGGCATTACAAATT
CTACACTGATGTGTAAAAGAGGGACTAGGCACAAAGAATACATGCTTAGCACAATCTATCTTTATTATAGGAAAAGCAA
TTTAAAACATATTTTACTGAGTAGTGCCAGAAAATTACCGAAAAAGAAAGTTAATGCTTTTTCCTTCTCAAAACCCTTC
TATAATGTGTAGGCATTGTCATATTAGAGAGACTCCTGGGAAATGCTTGGTCAACTAAAATTGTTAAAGAGCTAAAATT
GAACATTGACTCAGAAGCAATGTGAAATACATCTTCCCATTTCCAGGATGGAGTGCAGTGGTGAGATCTCAGCTCACTG
CAACTTCTGCCTCCTGGGTTCAAGCAATTCTCCTGCCTCAGCCTCCTGAGTAGCTAGGATTACAGGTGCCTGCCACCAT
GCCCAGCTAATTTTTTAATATTTTTAGTAGAGACGGGGTTTCGCCATGTTGGCCAGGCTGGTCTTGAACTCCTGACCTC
AGGTAATCGACCTGCCTTGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCGCGCCCGGCTCACTGACGCTCTT
CTTAATTTCTTCTGCCTAAGAAATAGAAGGTATTCTCGAGGGAAAAAAGGCATTGACAACTAGTACAGGGAAATTGATG
ACAACATAAGGCTGTTTGAGGAAAAAACGTGGGATCTCAAAGACTGTTGGTGGGAGTGTAAATTGAATAATCTACTTTG
GAGAACAATTTGGCAGTTTCTATTAAAATTTAAAAATGCTGATATCTTATCAGTTAATCCTACTTCTAAGTATCTATTA
TTAAAAAAAATACTTGGCATGTATTCCCAATGCGTTTTGCAAGAATGTTCTTTGTAATTGTCAAAAGGTGGAAATCTGA
ATGCCCTCCAGTAGGGAAATGGCTAAATGAAATATGAAATAACCATACTATTGAATACTATGCATCAGCTAAAAATAGC
AAGAGATCTTTGTTGAGTGAAAAAATAAATTGCTGATTGATCATTAAATATAACACTATGTTTTTAAGAAGCCTCAGAA
AACAGTAATATATGATCCTATAGGCATAAAATTATTTATGATATCACACGGAGGTCTATAGAATTTATTGTCCTCTATG
GTAGCCACTAGCCACATGATGCTATTTAAGTTTAAATTAATAAAATTAAATAAAAATAAAAATTTCATGTCTCATTTCT
ACGAGCCTCATTTCACGTCCTAATAGCAACATTTGAATGGTGGCCAGTGTAATGGAGAGTGCAGATCTAGAAGAACAAA
CACAACTGGTAACAGAGTTACCTGGGGGAAGGTTGAGTTTGGGGATGGAGGGCTACAGAAACTTTAGAGTTCTGCAGAA
CTTTTAACATTTTTACAATGAGAATACATCATATATTATCTAGCTAATTTAAAACAAATACATTGTTAAAATGAAAAGC
ATGCCTAGCCAAAGGATTTCTTTCTTTTTTTTTTTTCCGAGACAGAGTCTTGCTCTGTTGCCCAGGCTGGAGTGCAGCG
GTGCAATCTCGGCTCACTGCAACCTCCGCCTCCTAGGTCCAAGAGATTCTCATGCCTCAGCCTCCCAAATAGCTGGGAT
TACAGCATGTGCCACCATGCCCAGCTAATTTTTGTATTTTAATAGAAACGGTTTTCATTGTGTTGGCCAGTTTGGTCTC
AAATTCCTGACCTCAGGTGATTGGCCCAACTTGGCCTCCCAAAGTGCTGGGATTACAAGTGTGAGCCACTGCACTGGCC
TAGCAAAAGGATTTCTAAAACAATGTAGAATTTTAGTAGATAGATCAGTATAAATTGATTTGAACACCCTACCTTTTTA
GCCTGTTAACTATCTAAAAGCATAAAAAATAGTAAAACAAACGGCAAAATCATTTCCTCCTTCCTTTTCTACCTGTGTC
TAGTGTCTATTGAACACTTACTATATTCCCAGCATTTAAAGTACAAGAATCATGAGGCAACTGCTGTTTAGACTGAAGT
GTTTTCACCAGGGGTGTATCAAGAGGATTTCTTTGTCATAGGTTGATTTCCCTTATAACTGATTGATTAAATAATTACT
AGTTGGCTTATGCAATGTTTATATAATTACAGGATATAAATGGTGGTTATTAGCCTAACTAGAATATATGCCTTTATAA
TATTGGTGTAATATTCATATGTATTTTACTACAGCTTAAAATAATAATTTCAGAAAGAAATTCAAATTGATTTTCATAA
TTTAGCAACCATTTGAGCTCTTCCAGGTCAGAATAACTTCTTGGGAAGCCCCAGAAAGAAAAGCATATACCTGCTTTTA
CAGTTATCCATAGATTGACTATAAGGCTAGGTATTGAGTTGGCGGATGCATACTTTCTTAATTCTTTAGATAATAGGTC
AATAGTGTGGTAGTGAATCTTGATGGTAAGTGTCCTTCGCATGTTTCATACTGCACAGTAGACTAGACTGAAAGTCCCA
GGAGACTGTGAGTGTAGCAAAGAATGAATCTTGTATCCCCAGATACACAAAGACCATGTCTTCACTGGACCCCACAGAAC
CTAGCACATGGTGTGTCTTATTAAATGCTTGTAGAATAATTAAATAAATTACATTCAGAAAACAGTCTATAAGTCTTAA
AGTTTACCTTTCAATTATGTAATTATTACTTTTAATTTATAATTTATTAACAGACATAGATATTCACAACACCTGCAAA
AGAGTTTATTTCAACTTCTTTTTTTTGTCTCATCTAAAAAGTGTGGATTTAATATAGCAAAGTTTGCTTCTAGAATGGA
ATCTTTTAGAGTGTATATGCGCTTTTGAAAAAAATGGTTTATGATTTTGTTATGTAATACTGTTATATAAGTTATTTTA
GAAATTGCATGATTTATTATAATATCAGCAGTGAATTTAAACATTACACAAATGCCTGAATATAAAGAATAGGATCAC
CTGTGTCCAAGTTAATTGCCTTCTTTTGCTGTATTCATTAGCCATCAATACCTACATAATCTAAGGCCAAGATACATAT
GGAGCAATCTATGGACAGGCAATAGCATCCCATGGGAGCTTTGGAAATTCAGGAGCTCGAGCCTCACCCCAGATGTACT
GAATCAGAATCTTTATGTTAGCATGGTCTCCAGGTGATTTGTAGGTCCATCAATGTTTGAAGAGCACCTGTCTGGCCTT
CAGTTGCCTTTATACATCTTCTTACCAACAGTACCATCTAGTCCAATATTTTTCTGTCCTGTTAGTTTGTCCATAGTCT
CCCAACAGGCTTCTGTCCACAAAGCTGTTATTTAGAGGCATGGCCCCATCCCTCTCATAGTCTTTGCTAAGGTTATGTC

Fig. 6.180

TTTTACATTTGGAGATACACCAATTGCAGAGGAGGGTGAAATTAGCCTGAGAGCAGGACCATAACAATAACCTGATTCT
AATGGAGGCTGTTACCAGGGCAGCCAGTACCCGAACTAAGTCATCATTCTGCTGGAAGCATTCCGTTTGGCTGCAGTTC
AACAAAAAGAAAAAAGAACGCACTCCAGAAAATCAGGAAGGTTTGCATTATCTATCAGCTATGTTCAAGGAGATGTTTG
TGGAAAGTCGAGTTAAGGGTTCCTGGAAACATTAATCTCTGGACATGCTGGAGGATGCAGGTGGATTTAGAGCCAGGCG
AGTCTACATTCACAAATCACATTAACATATTAAAAGACGGAGAGCTCTTACTCTGAGGAGCCCCATTTAGTTGTATTCA
ACCCAGCTCCATATATTTTTTAAATCACAAAATGCTTTTTTTTTTTTCGTGAAACATTCATTAAAATTAGGCAAAACTC
ATCTTCGGTGAGACATGCTTTGTGAAATGTGAGTGGAGAGGTTCCTCTGAAATTGTCTAAAAGGTAACTTAAGCCCTGA
TGTTTTAGAAAATTTGACTTATTATGTAACAGTGAATATACCTATCTGTGTAGTTTCACTATTTTAGAAGTAAAACAAT
GCTTTGATTTCAAATATTAAATTAACTTAGGCATTGCTCTCCCACTCCATCTCCCAAGCTGTGACTCAGATATCAGAAC
AAATTTTTTACCTAGTTAGGGAAAAAAGTTTCCCAAGTTTCAGAGCCATAAAAGCATCAGTAAAGCACCTATTTATTGT
AGCACTCTCTTGTTTTCCATCTTCAATTTCCTAAACATTGAATATCTTGTTTTTCATTTTTCTTCTAAAAGCATTTGTG
GTATATAATAACACCGCATGAAAGTGGAAGAGACTATATTGGCTCAGGATGCACTTGATATTTGTTTTCCTTAAATGAC
AAATGAAACTCCCAATTCAACACTAGGATAAGATTTTTTTAAGTTATTAAACCTTAGTTAAGTTATATGACTTCATAC
TGGGAAAGTGAGTTCCAGAGAAGTTTAATGAACTTGTTGAAGGTGACTTTGCTAACTTATTACAAAATGGGGAATACAA
CTCTGGTTTCCCTAATGCCTTTTGTAAAGCATCCCAGATAAAAATCTAGGTTTCAGAAGATTCCTTATAGTTAGGTATG
AAAAAATGTTATTTCTGAAAATATGATTTCCTTATGAGAAACCATTGTTTAGATATGTTTAACTTTAGAAAAAATTTCC
AACTATAATTAAAATCTATGAATTATAGACATGTTCAGTGAAATACACTGTCTCATAGAAACCATATTCAAAAAACAGA
ATGACTGGAACAGATGTTATGTATGGGGATTAGAGGGAAGTTATCCAGTTATATTATACTAATTTGAGAAAGATTCCAA
AAAAATCCTTTCTTGGGGGCCGGTCAGGGGTGGGTATAGCAAATGAAAGAGAAAGATAAGGAAATGTGTTCCTTGGTGT
TGAGTTTTGAATAGATCACTATTGTGTTATATTCCTCTGAATTTAGGATACCTGTTGGATTTTGTTCCTTATCATGTCT
GTTATGTGGACAAAGACAACAAACGTTTGTTTCTTCTTGTCAATTTCATTATGCACAAGGATTCTGAAGGTCCACCCAA
GATCTTTCGTGCACTAAATGTCTGGTGTTTGTAATACAATGAACAATTTTGGGGAGTTTGAAAATCTTTTGATTATGAC
CTTGAGGATTAGAGATCATTTGGTGTGGATGACTTCGAGGAAGTTATTTAATTTTTTTTTTGTATGTCAGTTTTCTCAG
ATTTAAAATGTGGGTAATAGTAACCACCTTGTTAGAATGATTGTAATGATCAAAACATGTAATAATGCAAAGTGCTTAT
GCTTAGTGCACTAGTGTTTTGCACTTACATCTAGTTATTTTTTTCTCAGTAATTCAATAGGCTAAGGGATGATCTAGTA
CAGATTGAGATATGGGATTTTTGTTGTTGTTGTTGTTGACAAGTTGCAGACAAAATGTTTGGTTATTCCTCTCACTGAA
ATAAAACCCAGAAATATAGGGTATTATAATATGTTAAACATTTAGTGGCTATCAAAACTTATTTTCTTCTTTGAAGTCA
GAGTAATATTTAGAGAGGGCATTCTGGGGTTTCCTTTTAGCAAAATAATTAGAAGTAATTTCCCTTAGAATTTTTAGAA
TGACTATATTAGGAGGAAAGGGAAGGTTCTTACCTAAATTGTATTGCAACTTTTCTCTGAAATAAAATAAACATGCTGT
GTTAAAATTGCTGGTATAGGCCAGGCACAGTGGCTCATACCTGTAATCCCAGCACTTTGGTAGGCCGAGGTGGGAGGAT
CACTTGAGGTCAGGAGTTTGAGACAAGTCTGACCAATGTGGTGAAACCCTGTCTCTACTAAAAACACGAAAATTAGCCC
GGCATGGTGGTTGGTGCCTGTAATCCCAGCTACTCACTACTCAGGAGGCTGAGGCAGGAGAATCACTTGAACCCAGAAG
GTGGAGGTTGCAGTGAGCTGAGATGGCACCACTGCACTCCAGCCTGGACAACAAAGCCGGACTGTGTCTCAGAAAAAAA
AAAAAAAGAAAAAAGAAAAAAAAAATGCCATTGTAAGTTGTGCCCTATAAAATGTTAACGTTTCTTTCAAGTGAAATAA
TGACTTACTATTTCAGCAGAGATCACTCTAACATTTAGTTTTAATCTAGGAAAAAAACCCCATATAACTAGATTTGGTC
TTTTTATTAAAATGAATTGATCTTAGAAGAGCACATCATATGCTCAAAATATAGCTGTCATGTAAATCAAGACATATAT
TTGTTTTGTTCAATGAAATCTAGAAACTCTTAAAAAAACTGTTTACTGGCTTTTGATGTTTAATTGGGTGGAATGTATA
AGAAATATCTGATGAATTTTTGACTTCTCTATTGACTTCCAAGCTTATATACAGCCAATGAACAAACTTTTCTAAGTCT
TGTACTCTCTTTCCATTTCTACACAAATTCATATTGAATAGGAAATATTGAAATAAGATCTTTAGAATCCTCCTCTTGC
AAATTATAGAACATATTAAAACCAGGTTAAACTTATTTAAATCTCTTTATATATTGTTTACCCACCTACCACGTAAATG
TTACTGATTTTTCCATAGTAAAAAGTCTAAAAATCCAATGCATCTTACCTCCCCTAAACTACCTATCTCTCCAAACCTC
TCATTATTCCTCCATATGTACCTTCTTTCAAGACTTAATTCAAGCCCTGCCTTGTTTTTGAGTTATTCTCTGTCTAGAT
AAATTATTGGTCACTCCTTTTAACCCAGAAGGCACCAATCATTTCTATTATTAATTTGATTCTTAGTATTTATTTTCTT
TGTTGGGAGTTTTATTTATATTCCCTTCTAAAGTAGATATTTTACTTTTTTGGAAATCTCTGCCTACTAGCCCAGTACC
TAATAAAAGGTCAATGATGATGATGATTTGAAAAACCATGTTCTACAGTGTTCAGATGTGCTTTTAGATAAGGGGATGA
TATAACTTTATCATCAAACTTTATAATGAAAAATAATCATGATGAAAATTTAAGATAAAATAATTTTAGAATATATTAT
TTGGCTAAGTGGAAAACTATCATGGAGTTTAATTAAAATTTCTTCATATTGAAAGAAGACAGGTATATAGAGGAGAAAA
AAACATAAAAACAAAAAACATCTCAGGAATTCCACCTTCAGCTGCCCTTACTTCAATACCATGCCTCAGAAAGAACTTC
ATGACTTGGCAGGTTTACAGGTTGACTCAGTGTATATGCTGAGAATAGCCAAGGGCAAAATTTAGTGTTAACTAGATCA
AGAACTCAGGGGACCCAGGTGTCTACTGTTTTCCATAGAAATAACCATAAACAATTTTAAATACTAGATCTGCTTTCCT
TTTGGGTTTGTATAATGTAGAGTCAAAATAGAGGCTCTGGCACCTCATAGACACAGATTTAAATCCCATTTATGCCATT
GGTAAACTATATGACCTCTGGCAAGTTATTTAACCTCCTTATGCCCTCATCTCTAAAATTGTAGTACGAAAGCAACACC
CTAAGTATGATTGCAAGGATTAAGGGAAATAAAATGCAAAGTTCCTGGTACATAATTGATATCTACTAAGTGTGAATTT
CTCTAAGTTCCTCATATCACATAATGGTAGATTTTTATTTACTGGGTGGTTATTCTGTACCAGGCACTCTCCTAAACAC
TTATATCATGGGGATTAACACATTTAATCCTTGTAGCATTCTTTTGCAATAGCTACTATCATCATCATCCTCATTATTA
TCGTCCTATTTCACAGATCTGGAACTGAGCCACTGAAAAGTAAAGTAACACTAACTAGTAACTAGTACTTCTGGGGTTC
AAAATAAACTTTTCATTTCTAAAATTAACCCATACCTTCTTATCCAGTAGACAACATAACCTCTCCCACTATCAGGTCA
TTTCCATGGCCTATATCCTGTGGACAATTTGAAAGCGATTTCCTTTTAACCCTTGTTTATCTAATTAGAACATAGTTTG
GAGAAACATACAATGTTTTCCATAGCTGAGTATAAATCATTTTCTTCCATCCTTTTGAATTAGCCACATCATTGCTCTC
TTTCCATTGTGGGAAATCTAGCCTTGCTTGTTTGTACCTAGACAAAAGCACACTTTTTGTGTCAGAACCTGTGAAAATT

Fig. 6.181

TTATCTTCCTTGTTACCACCTATAAATGATTAATGAGACAAAACATTTTCAAGGATTCCAAATAATCTAAAAAATCCCA
CAAATTTTGAAAATCCACAAAGAGGTATCTAGGAAAACTTTCATGAAGTTAAGAGATGTTAT[illegible]GCTGTTCTAGGCGTG
GGTGACTTTATCAAAACATTTCGCCCACTTTCAAATTTCCACTTGTTAAAACCTGAGGCCTTATTTGGCTGTCACTTAC
TGTACAGTGTTTTTCAGACAAGTTCCTGGCAGCTAATTTTAAAGAGATTTTGTGAAAAACACAAGCTGTGGAGTGCTCC
TGTTGGAAGAGCACCCTCTGACCCTCTGCCTTAACATAAGAAAAAAATTGCCAGTCTGTCCAAACCTCACCCACCTTTGG
TTATCTTCAGAATCTTACAATTTGTGTTTCCTAAGGCAGCAATTTTCAAGCATGACTTTGAAACACTGCAGGCTTTTTC
AAGTTATTTCAAGGACTGGCCAAGAATTCTCAAAACAAAATTAATTTTGTATTTTTAAAAAGCAGTATGCATATCATGT
ATCATTTGGCAGATTTAGGAGGTTAACAGTAAGCATTAGGAAATTGAATCAATAATAATAATGGATATGGGGACCTGT
AAAGAAACTCTCAATCCTGCTTCATTACTTTTAATGGCAAAAACTGTAATTACTTTTGCACCAACCAAATACACTGAAA
TCCTTTAACATACACCAAAGCAATGGGAGATCTGCAGAATGCTTTTGTCCATGTTTAACCATAATGATCAATGCATTTT
GAATAGAATATTGTTATATCTACTATTTAGCTTAATTGTGATCATTAACAAAGTGCCCAGACTCTCTGAACATTCTACA
TGGCATACTATTTGTGAGAAGATCAGCATGTAAATAGTTTACTCTTTGTAAGCTCTTCTACAAGGTGGCTAAAAGCAAG
AACTAGAACCCAGAGTCCCTTGCATTCAATGAATTTCCCTATTATTGCCCATATCATTCTTTCTTTTCTTTCTTTCTTT
CTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTCTCTCTCTCTCTCTCTCT
CTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTTCTTTTCTTTCTTTCCTTCTTTTTGAGAT
GGAGTCTCGCTCTGTCGCCCATATCATTTTTAGTATAATCTCTTCCTTTACTTGGTCACTAAGAATCACTTTTCTCTAC
TTAGAGCCAGACATTTAAATATCTCCAGCCTCCAAGATCTCGTCTGGGTACTTGGGCTGCACTTTTTCATGTCAATCAT
TTTGCACTTGTCATCTATCCTATTAGGCTATAAGCTCCCCAAGGGCAGATATAGAGACATAGTATCAAGCTAACCTTTT
TATTTATTTATTTATTTATTTATTTATTTATTTTGAGGCTGGGTCTCGCTCTGTCATGCAGTCTGGAGTGCAGTGGCAT
GATCATGGCTCAATGCTGCCTCAACCTCCCAGGCTCAAGCAATCCTCCCATCTCAGCCTCCTGAGTAGCCTGGGACTGC
AGACGCATGCCACCACACTCAGCTATTTTTTAATGTTTTATAGAGACGGGGTCTTGCTATGTTACCCAGGCTAGTCTTG
AATTCCTGAGCTCAAGTGATCTTCCTGCATTGGCCTCCCAAAGTGATGAGATTACAGGTGTGAGCCACCACACCTGGCC
AAGCTAATCTTTAAATATCCTAGAGCACCCATTATAGTGTCTGGCAAAAAATAAATGCCCATAAATGTTTGTTGAATGG
AACTGAGTCTTCAGAAACTAGAGATTTTTTCTAAAATATTTTTTTTTGCCATTTCAGTTTAATACATATTAGTTTTTCT
CACTTATCCTATCATCTGAATTTTTTATTTCTTTGAACCTGAACAGGCTTTGTGTCTACAGACTGCTGAGCCTTTAATT
TTGTTGTCGTTTGTTTTGTTTTGTTTTGCACAAAACTAAAAACATGTACAAATACATTTTTAATTGCATTTGTTCATTC
TAGTTTTTACTCGTAAAGTGCACTTCTTTCTTTTCTTTCTTTCCATTAATTTCTGAACCTTCCCTTCTTAAACTTTACC
CAGAGTTTTCTCATCATATACGCATTTCATTTTCATTGTACTTTTCTGCATCTGACTATTTCATTTTCCAGTTGTTCTG
GTATGTTTTTCTAAGTATTGTCCAATCCTTTCCATTAAGTTACAAGCTCCTTGAGGGCAAGCATTGCACACCTGTTTTG
CACAACTTCTAAGGCCGTTCAGTCCCTCAGCCCACTGTATAGAAATATAGTATATATATAGACAATACACACACACATG
CACACACATACCTTGCCACTTAATGATGTAAAGTGACAAAAACTTTTATATTGGTAAAAATTATGAGAATAAGAATAAT
CATATCCTGATTCTTCAAATTCAAATATTTGTCTAACATTTTTTGATGAAGTCATAGCACTTATGTGTCATTGAATTGT
TGTGGGCATGCTAACAGGAAAGATGGACCAAGTGGTTGACCCTGTCCTTCTGTGAATAGAACCTCAGAGTACACTTTTC
TGTAAACATTTAAAAGACAAGGAATTGGAACTTAAAATGGAGCAACCAGGGGGGCAGGGAAACAGAATAAACTTTTAAA
ATTGACCTAATAGTAATCATAGGAAACAAAAAGAATCATTCCAGTCTCCATTTTTTTTTTTCTGGATGCATTTTGTAGC
TCCCTAAGTTATTGGGTTTTTAAGAAACATAAAATATTCCTAGATCGTTAGAGATGTGATTTGATTTCAATCCCACATG
GTCTGTAGCATCACTAAGCTACTGGGAACTTCCCTATGCAAAGGTTTGAGTTTCTTTCCAATGCTGTTTAATGTCTGCA
CTTCTAGTGTCCACATAAATGAGATTTAACAGGCTTTACTTCATACTTTCTTGTTACAACATTTTTACTTTTTTTCCAA
TTGCAAAATTATTTCTTTTAAGCTCTCTGAATAAGTTTGTTGAAGCTCTATTCATCACACATAAAAATCTTACATTAAA
AGGCAATAAAGGAAATCACGAAAAGCTAGATGTATTCCACCCTCTTATAGTTGAATACATAAAATTGTATATATCACAA
ATAGTAATTGAAACTACTCTTATGAAAACTATCTGTCCTTCTGGAGGGGCATTAGTTTAAATGCAAAGAGAAAACATAT
CATTTGTGAGTCTAAATAGTGTTGTTAGTTCTTTGAAAGGGCCCTAATTAATAAGGTTGTAGAACACAACTGCAACCTG
TAAAGCGTTCCATGTGTAGTATTTTGAAACCTTTTGTTTGTTTGGGTTCTAACTAGAGACAGAGGGAGAAAAAGTCAAT
TTCATTCTCATGGGATTTGTCTTATGTGGTTCATCAGATTGAGTTTAGTAAGCAGGGAAGTATTTCTCCTTGTGTAGCT
AGTGCTTGTTTATTCTTCCCTTATTAAAAAAAAAAGAGAGAAAAAAACAAAGGATTGGCATTTTTCTTTTATGAACGTG
GACTGTAGGGAGATAAATAGCCCTGCGGGAGAGGAAGGTCAAGTTCAAAGTTTTTCTTTCCTTTGGATTCAGGAATAAG
CAAATGGAAAGACTAGCCAAACAACCCAGCAGCAGGCATCTGATGGTTAAGCCCTCCCCCCAGGACTTTTTATGTACAT
AAGCAGCAGAAGTCACTCGCGCAGCTGCGGCGCATTAGTTCCAATAGTTTAACAGGCTGCTTTGTAGCACGGACAAAGC
CGTGCGAGCGCGGTGCTTTCCCTCCTTGTTCATTTGCTATGCGAGCTTGTCAGTGATCTTTGGCAGGGGCTTGGGAGAG
GAGGGGTGACGTTTAATACGCTTCCGCGGAGGAGTGCGCTCGCCTCCTCTGCACCCAGCCCCAGGCTCTACAGAGAGAC
TGAGGCAGGCGACTGAATGCACTAACAGCAGCAGGCTCAGACCTGCTTCCCTGGACATTTCCGGGACCGTGAGCGAGGG
AACCACGTTGCCCTGGATTCTTGCCAGCTGTACAAAGTTGACCAGGAAAATGGCTCAGCAGACAAGCCCGGACACTTTA
ACAGTACCTGAAGTGGATAATCCGCATTGTCCAAACCCGTGGCTGAACGAAGACCTTGTGAAATCCTTGCGAGAAAACC
TGTTGCAGCATGAGAAGTCCAAGACAGCGAGGAAATCGGTTTCTCCCAAGCTCTCTCCAGTGATCTCTCCGAGAAATTC
CCCCAGGCTTCTGCGCAGAATGCTTCTCAGCAGCAACATCCCCAAACAGCGGCGTTTCACGGTGGCACATACATGGTAA
GGTTTGCGCAGACCTCGCAGAAATGGTGGCCGTTTCCCTTCAGGGAGTCCTGCTCTCGCGCCTTTAATTTTGGGGGTAG
GGAGGGAGGACCATCATCATTCCTCACCGGGGATTTATGGCCAAGTGATCTCCCTTAACCATAAATCCCACAAATGTCC
AAGTCAGGGCAAGAATCCTGGAGACTGGTACTAGGAGTGGTTGAGGTGGGTGGTTCTCAAAGTTCAATTCCTATTGCAA
GTTCCTACAAGAAAATTGGATGCCAGATGTCAAATAAGAATGCAGTTTTATTCCCATACGTACGTAGTGGCGTTTCTTT
GATTCCTTAAACCAATTTCCCTGCCAGCTTCCCCAACAGCTGAGGAAAGAAAGGACCAGAAATGAGGGGAGGAAAATCA

Fig. 6.182

TAGTTTGCTCTGTTTTCTGCATGATCCCCACTTGGACAGAGACACATACAGTGTGTGTGTAATGGTGGTGTGTCTTCAT
AAAGCCCTTCCTCACTCCTGACTTTGATATACAGTATTCATAATCTTAAACATGCCTTTCCAAAGGAAAGAAGAAAGGG
ATTAGGAATTCTACGCAGAAAGTTGCAGGCTGGTACTTGGTAGTATTGTTGTGTTCTTTGAATTTGGATTGTTAGAACA
TTTTGCCAATCTTTTTATTTTCTTTGTGAATATTTTTATCTTCTTTATAATGGGTGAATTTGTTTCATGCATATGCTTC
CATGTATTTTTCTGGAGGATTCCTCATCTTTTCCTGCTCTTGGAAAAAAAAAAAAAGAAGAAAAACCCAAATATTAAAAC
AGACCATCATGTGAGCTTATTTGGAGTATTTGGAGTTTCTGCCTGAGTAGAGGCCATTCCAAACTCTGATCAGTGAGTC
CAAGTACTAGGGTCTATGTTACACACTTAGATAATTTCAGGTAGTAGTAGGTTCTATACATTACATCTACATTTTGATA
AGATGAGTATAAATTATGATAAAGAAAACATAACAAAAAAGAATGAGTGTGTTAGTTGAGAAACTGTATGACTAAATAA
TTTTTTACAGTTTTGCCATAACTAACTAAACAGTATGTACGTTAGCAATGGGAGGGAAAAAAAAAGCAGAAACAAGGCT
TTTAGGAGGAAAGCAGCAAAAAGTAAAAGGAATTAAAACCTAAACCAGTGACAAGACCGTGCTCAGGAATGCATTGATG
TTATAGATGAAAGTCAATGACAAAGGAAATAAAAGCCATGTCACACCCAAAGACATGACCAACCTCAAAAATTTGGTTT
TAAGTAGCTAGATCTCTGACTGGGAAAGTGTTATTGTCCCCAGGATTTTAACACCTAGATGGCATTTCTGAGTTTGGTA
GATGTAATGGCCATAAGAGGAGTGAGACAAACATTGACTTTTTCTGTCTTAAAGCAGTTATTGGGAAATGATGGCTTCT
CTTTGAGGAAGATTTTCTTTTTGGAAAAAATTGTGAGCAACAAACAGTGAATAAAGAAAGGCATGAATAAACACTGGG
AGATGCACTGAAGGAGAAGGTTGGCTCAAGGCCAGGCATCGGGTGCCAGAGCAGGAGAGCTGGCATGAGTTCCTACGGA
GCCAGGACCAGAATTTCCGTGTCCAGTGTCCCTTTTGGTTGCGCTGCTTTATCACTGCAGTTCCTAAATTGCACCCATT
GCTGAATGAGTGGCCCTCAACTCAGCTGTTTGATTTCAGTCTGAGTGGAGCAACCTAGAGTTCAGCTGGAGGTTATCTG
AACTATTTAGACATGTCGGGATGTAAGGAAGGCAGGAAATCCCATGAAAATAGGCTTTCTTCTGACATTTCTGGCACTT
CCTTTTCTGGTGCTGTTTGGAAAAACTTCATGAGCACAATTTCTATCAATATTTCATTTTAGTGTATCAGGTCACAGCC
CAGTAAGAAAAGCATAAAGAGAGCAATGGAAACCAGAAATAAAAATCATGGTATCGATTTTCAGTAACTCAGAAGGAAG
CAGTTTCCCCTATGGACTAAAACTATCAGGCAAGGGAGTTGGAAAGAGTATCTCAAGTTTTCCATATTGGTTGAATGAG
CCCCAAGACGTTCATAATATCCACAGGCATCTTTTGACAAAAATCTCATTTGTGCTTTCACAGTTTGTGCTAAGCACTA
TGGAGAATTTTGAAAATATGTTTCAAATTGTTCTGACATAAATATAAATATATTTGTATCTAATTTGTTGCTAGTACAG
TGTTCTGCCTCACAGTTTCCTGCTCCTGGTATTCCCCTCCATTCGCTATGCATACACTTAATACCTACTGAGTCTAACA
TGTTTATTCTGTACCTAATTATTACAAAGTTGAGCAAGAACCATTTGTTGGTTTCCAATAATTTATACCATGGTAGAAT
AAATCAATAATATTGGAAGACATCTGTTTTAGCTAAGATAATCTTGCTGTTCTACAAAATAGTCTCCAAATCTCATTGG
ATTGACACAGTGAATTTTTATTTCTTGCTTCTGCTTTTTGTGGGGAGGCAGCCTGCCCTAGCCACTGGGTGCCTCAGGG
ACCTGGAATTCTACCATCCTGTGGTTCCATTATTTGCAACATGTGATTCCCAAGGTTGCCAGGCTCAGATGAATCAGGA
GAAAGACCATGAAAGAGGATGGTATGTGTGAACTTTTATGAGACAGGCCGGGAAGTGCACATGTCACTTATACTCGTTT
TCTTCTGGCTGGAACTCAGTTCTATGGCCACATCTAACTGCAAAGGAGGCTGGGAAACATAGCTCTGTTCCAAGGCATA
AAGTAAAGTGCTGGTGGCTAATCTATCTTGGTTATATAGTATGTTAAGGGCTATCTGATTTACCCTCTATGCCATGGTT
GAATTCTTAGAATAACATCTGTAATAACATATGCCATTGTTGAATTCTTAGAATAACATCTGTAATAACAAGTCCTTGA
ACCTCTCGTCAAACCTCCTTGATGAAGATTATACAGAAGCACTTCTGTTGTTTGATAGGGCTGTTGATTGGAAAGACCT
TGCTTCTAAACAGTAGAAGTCTCCTTCCCTGCAACTATCATCCATGGATCCAAGATCTGCTTTGGGAATCCTACAACTT
GAATTTTTGCTCCCTTCCATTATGAAGCCCTAAGGCAAGTGGCTTGGAGTAACCCACCAGAGAACCAGGGCCCTATTCA
TTCATTTTGGTATACCCATGCTTGGCATGATGGCTGGTCAATGGTGGAAGCTTAATAAATGTCTGCTAAACAAATTCAT
TAATCAATATTTTAGTGTTCTCATGCTCTTAAAAAAGACTTCTCTTGGGCTAAGCATGGTGGCTCATGCCTATAATCCT
AGCACTTTGGGAGGCTGAGGAGGGCGGAGTCCCTGAGCTCAGGAGTTTGAGACCAGCCTGGGCAACATGGCGAAACACC
GTCTCTACTAAAAATACAAAAAATTAGCCAGGCATGGTGATGTGTGCCTGTAATCCCAGCTCCACAGGAGGCTGAGGCA
CGAGAATCACTTGAACTCAGGAGGCGGAGGTTGCAGTGAGCCATGATTGTGCCACTGCACTCCAGCCTGGGTGACAGAG
CAAGACTCTGTCACCAAAAAAAAAAAAAAAAAAAAAAAGGGACTTCTCTTTTCTTAAGTAAACATCCTGTTATTTCATTTC
TATATGCTATATTTACCAGGTAGTTTTTATCTAGACTTCTCTTGGGTTTTCATGATCCATTTAAAGAATAGCTACTGAA
TTGACAGCATACTCTAGGTGCTATGTCACTCAGCACCAAAGCAGTTAGAAAAGAGACTAAACTTAAATTCTTACTTTGC
ATTTAGTAATTGTGTGACTTTGGTCAAGTTACTTAACGTGTGCTTCAGTTTCCCCGTTAGTCAGTTTTCTGGGAATAGT
ATCTATTGGGGGTTGTGGTTTAATTAAGTACAATTATGTATAAATTAAGTGGTTTCACAGGGCTGGACCCTTAGTGGGT
GTCATTATAAGCTAGTATTTTTTTTATTATGTACTCTGTGCCCATTATTCCAGCCTTGGTCTGCATGAACCTTTAGGAT
CATGTTTAAATTTCTAGATGATTACTCTGTCAGTCATTTGTGGATGAATTAGAGTGAAGAGACAAGAGTTGAAAGAAAC
GAGTGTATGTCAGTTTTATTACTGTAGGAAAGGAGAAGGCAGAAATGAGAGATACTACTGAGGCAGAACTGTGGGGTTT
GGTGTCTCTTCTCTGCCCACTGCAAAAATACATCTTTCAAATTCCTGGTTTTCCTAAAAGGTTCCTCCAGTTCTCCCAA
CTGGAAGTAATCCGTTCCTTCCTTCAAGGAACAGATTTCTATTGCGCCTCTTGTCTCTGATACTCTCAATGCTTATTAG
TAATAGTTTTATCACTAGCTAGTATGTGTTGAGCACTGGTTTTGGTCTGGCACCATCTGTTAGGATTAGAATTCTCTTG
TGTCTCTGCTTTTCACTAATCTGTTTGACTGCTTTTACTAAACATGCAATGCCTTGTAGTTCTAGTGATTATAGACATG
ATTCAGATTTCATCTGGTAGGGGATTCCCTCTATCATCAGCAGGAACTACAAAGTCAATGGAATCTCTGGTGAAGAAAA
CTTAACTTCCAGTACTAGTTTATTTCAGGAAAATTGAAATCAGGAAGTTCTTCACATTCTTCAGGCTTTTCTCGTCATT
GAATTTTAAGCACAGTTTTGGGGTGTAAGGCCTAAATAAGTTTTAGAAGAACAAGGTAGAAATGCTGGTTTTCAGTCTT
TGGGAACTTAAAAGTTGCTGTTTAGTCATATTTAAGTCATAAAACCTGTTATCTTCACATATTCTTTTAAAAAGTAATT
TAGCATTATAATCACTTAAGTTATAATTTTTTCATATTTTTATAATACACATCTATATATCCACGACTCAGATTTTTTT
TTATTTTTTATTTTATTATTATTATACTTTAAGTTTTAGGGTACATGTGCACAATGTGCAGGTTAGTTACATATGTATA
CATGTGCCATGCTGGTGTGCTGCACCCATTAACTCGTCATTTAGCATTAGGTATATCTCCTAAAGCTATCCCTACCCGC
TCCCCTGACCCCAGACTCAGATTTTTAAAATGCCAAAATTTTGTCATTGTTTGCATCAGTTCTTTTATTTTTTTAAGAA

Fig. 6.183

TAAAATGTTACAGATAATGTCTAAAGCTGTCACCCATCCTATTCTTCTTCCTTCGCAGAGGATCCTGAAATCAGTGTGT
TCTTCCTTGAATGTCATTGTCTTTTAACTTCATATGTATGTGTCCTGTTTGTGTGTTTACCATTTTATATATAGAGATG
GTACATGTATATATATCTCCATAATATGCCATACTATAAAATGAGAAAGAGCAAGCTATATATATATATATATATATAT
ATATATATATATATATCCTTAAGCAGTTTGCTCTTTTTTAGTACATAGTATAGGAATAGAGTTGTGAATATATATATAA
AATATGTGTGTGTATATATACATATATATGCATATATGTACCTATATACATATATTATATATACCTATATGAACCTATA
TACATATATACACATATATGAACCTATATACACATATACACATAYGTACCTATATACACATATACACATATGTGTACCC
ATATACACATATACACATATGTACCTATATACACATATACACATATGTGTACCCATATACACATATACACATATGTGTA
CCCATATACACATATACACATATGTGTACCCATATACACATATACACATATGTGTACCCATATACACATATACACATAT
GTGTACCCATATACACATATACACATATGTGTACCCATATACACATATACACATATGTGTACCCATATACACATATACA
CATGTGTACCCATATACACATATACACATGTGTACCCATATACACATATACACATGTGTACCCATATACACATATATGC
ATATGTGTACCCATATACGCATATGTGTACCCATATACGCATATGTGTACCCATATACGCATATGTGTACCCATATACA
CATATACGCATATGTGTACCCATATACACATATACGCATATGTGTACCCATATACACATATACGCATATGTGTACCCAT
ATACATATATATACCTGTGTACCTATATATACACACACACACATATATATATCTATATACCTACATATATATACACACA
TATATATATACCTGGATCATTTTTTAAAATGCTCAACAGTACACACATGTAACAGCATTTCAGTCAATGGTGGACTGCA
TATTTGATGGTGGTCCCATAATATTATAACGGACCAGAAAAATTCCAATCACCTAGTGAAGTCATAGCACAATGCATTA
ATTACTCTTGTGTTTGTGGGCATGCTGGTGTAAACAAACCTACCATGCTGTCAGTCCCATAAACATATAGCATATATAG
TTATATATTATACTTAATAATAACTATGTTGCTGGTTTATGTATTTATGTATTTTACCATTGTTTTAAAGAGTACTCCT
CCTACTTATATACAAAAGTTAACTATAAAACAGCCTCAGGTAGGTCCCTCAGGAGGTATCTAGAAGAGGGCATTGTTCT
CATAGGAGATGACAGCTCCATGCATGTTATTGCCCCAGAAGAGCTTCCAGTGGGACAAGATATGGAGGAGGAAGATAAT
GATACTGATGATCCTGTCCTTGTGTAAGCCTAGGCTAATGTGTGTTTGTGTCTTAGTTTCTAACAAAAATATTTAGAAA
GTAAAAACAAATTAAAAATAAAAGCTTATAGAATAAAGATATAGAGAAAATATTTTTGTGCAGCTGTATAATGTTAGTG
TTTCAAGTTAAGTGTTATTACAAAAGAGCCAAAAAATTAAAAGAAAATTAAGAGTTGTATAAAGTAAAAAGTTACAGTA
ACCAAAATTAACTTATATCAAAGAAATAAAAATATTTATAAATTAAGTGTAGCCTAAGTGTACAGTGTTTATAAAGTCT
ATAGTAGTGTGTGGAAATGTCCCAGGCCTTCACATTGACTCACCACTCACTCACTGAGTCACCCAGAGCAACTTTCAGT
CCTGTAAGCTGCATTCGTGGTCAGTGCCCCATACAGGTATATCATTTTTTATCTTTTATACTGTATTTTTAACTGTACC
TTTTCTATGTTTAGATATACAAATACTTAACCATTGTGTTATGATTGCCCACAATAGTCAGTAGAATAACATGCTGTAC
AGGTTTGTAGGCTAGGAGCAATAGGCTATACCATCTAGGTTTGTGTAAGTACACTCTAACATGTCTGCACAATGATGAA
ATTGCCTAATGACACATTTCTCAGAACTTAGAATAAGCAATGCACAACTCTGTGTCAATTTGCCTCTAAAAACCCAGCT
GTTTATACTCTTAAAATATTGTTACTATAGCTGTCAGTATCACACTCCAATCTAAGTGAATGTCACAATGAAAAACATT
GAGTCATTTTACTATAACGGAAATGAAGATGTAATTTCCTGAATTTAACAGTCAATTTAGGCTACATAGTGAAATATTT
TCAAGCTACTTTGAAAACATTAACCATTAAAAACTAATATTCATGGGTAGCATTCACTAAGATGCATCAGGTTTGTTAT
TTATGATATATCTCTCAAAAACATTTTTAATTCCAAATATAATTAAAACCAAATACAGTTTTCTAATATAAGTAATTTC
ATGGGGATTATATTCCTGATTAAGGACTAGATGAAAACATTGTCAATTTATACTGTGCTCGATGCACTGAATGGAGGAA
AATGTTCCAGCGTGTATATAAGCGAAATTAGGTAGTAGGATATCTTTAGGAATCATGGTGACTAGGTAATACTCAACTG
TATAATTTTTATAATTCTTGTATACACATATGTATTTTTAATTAAAACATATCCAACAGTAGAAGAAGTACTTAGTAAC
AATCTTAACAACAAAATAATTTCTTTAGGTGGACTTTCAAAAGGCCTTTTAGGAGACTTTTAATAAATCTTAAATGTGT
TTAGGAAGCTAAATAAGTGATTTTGGCCATATTTTTTGTTTACTATAAATTTCTCTTTATCAGGCATTGGCATTAGATG
TAAAGTTGCTCATATTTAAAAGTAAACATTTGCTTTCTGAGTCATTATTTCTTCAGCAACTGTAGTTGTTTTTATGGTT
GTTAAGAGAAATATAAATTTGCAAGTCATAGAAGGGGAAAGAAACCATTTGTCACCTATAAAAGAGAAATACAGCCACT
TAGAGTTTGTAGAGTAAAAATACACATATACACACACAAACAACTGAGTAGATTTTCAAAGCCATTATTTAGTGATTTC
TCTTTGAGGTCTCTTTCTCCCTCGTTCCATCTCTCTTACTTCTGCCCTGCTTAGCTTTAAGGTTATCTTTTCTCTGTCT
CTTATGGTAATAATACCCGGAGAAGAGCATTGCTGCCAGTCTCCTGGGAACTAGGAACCCAGAGGAGGGCTGTAGGCAA
AGTGTAATACCAGAAGGTGGGGAGCAAGTTTCTGGGGGAAATCATCTGAGAAGCACACCAGGAAGTGCTGCTGGAATGT
TTGGGGAAGACCAGTCAGCCCTAACCTTCAGCCATGTCTGTGGCATAACTGGCTGTTGCCCTCTGTGGAAATCATGGGA
GGTGGAGGCGCTGCAAGTTGAGGGTGTCTGTACCATTTGAAAGGCATAGTTGGCTTTCCACGAAATCAAAAGACCTGAG
GAAGATTTTCCTTTTAAAGAACATGCCGATTGGCTTGTCATGTTTAAGGAATTACAGGGATTACATTATGACAATTGGC
ATTGAGAAAAAAGTGAAGAAAACCTTGGATAACCTTGCAGCTTATTATTCACGTGTGCTTCCCATGACCATTGACATTT
ATCTTAAAGAGAAAAGATGTGAAGCCTGTTCGTACGAGCTGAAGCCGTTGCTACTGATGGTAAAATCTCTTCTTAAGAA
GACATGGTCTTTCTTGCAAACTTGGCAGAAATGTTGATAAGAAGAAAATAAAAACTTGAATCTTAAAGTTCATTAAAAT
AATGAAAATCATGGCTTTGATTTTTTAAAAAATATTCTTTGTGTAAATTTCTTTATAATTGAAAAGCTCCTATGTATTC
AGATAACTAAAGGAGTTTCAGCACTTTTTTTTTCTTAGATAGAAAGCTACCAAATTTGTTCTTCAAGTAGCACTTTCAG
GAAGAAGCTTTACTATCTCTAATGTAGCAAAATAATGTCTTTTTTTTAATGGTTTTGCTTTTTAAAAAATCATGTTTTT
AAAGCTGCGATTCATTCAGTATATTGAAATCACATATTTCCAGGTCTTCTGGTCATTTGATACTTGACCTTAGTTATTC
AACCTTTTTGACTTGGAGACTCTATTAATAAGTCATATGGTTATAAAGGCATTTGGCATTTACAAGTAAAAAGTAATGA
CTAATTAAATTTACAAAGTGATAACAAACTACAGTCTATTTAAGATTAGCAATTAGAAACAAGTTCCAACTTGCTGCTG
TAAGAAAGTAAGGTAGATGCTACATGGGTAAAAACAGGAAACAGAATTATTTAATAATTCTGTGACTCATAAATAGGAT
TCAGGGCCTTCAGAATGAAGGTATTGGTGGTATTCACGTTAGGCCACCATCTGAAAGGCATAATTTTAGGTAACAGATA
GGGAAATGTATAGATCACTGTAAAGATTCTAATTTAAAATTCTCTTTTACTAGACTTCAATTTTATACCATCTTAACAC
ATCAGTCTCTTCTACTGTAAATAAGCAAAACAGAAAAATCATTTTATGTGCAGTTTTAAGGACATAAATACTCTCCAAG
TATTTCAGATGAGGCACTTATTCTCAAAAGGAGATCTTGAAAAGTTGATCTGAGAAGAAATTACATGATTTCATTTTGG

Fig. 6.184

AATAAAAACACTTAGGTTCATAATAATATAGCTTTATAACCTTAGATTAATTATAACATAGACGTCAATGATTTAGCTC
CTGCCATGTGTCAGGTACTTTGTGTACATTAACCCCTTAAAACAACCAAGGTTGGATGTAAGTATTGTTAACCGTACTT
TACATATGCAGCTGCTGAGGCCCAGAAAAAGTTCTTACATAACCAAGATCTTTCAGCTAAACAGCTATGAAACCAATAG
CATTAAAACTTGAACCCAAGTCTTCCTAACTCTCCATCGTGTGTTCTTTCTTTCAGCATTACCTTCCTTTGGGCTAAGA
ATCACATTCACATTTGTTACCCTACCCTGCATGTGTATTGAAGTTATAACAATGAATATTCAAAGATTTTACAAAATAG
TAGTTAACAGAAAGGTAGAGACAGAGCCCTTTTTTGGTGTGGAATCTCAGTTTATTAGTTTACACATGTGGCTTGTATA
GAAGTTGACATCCTTATAAAATATTCTTATAAAAATATGTGTGTGTAGGAGAAATATATGTCCTTGGTGAAAAGGGGTC
AATGGAGAACATTTGATTCAGGGTTGTTTTTACATAAGAGGTGTAAAAACAAAGCCAGCCAGAGAATAATTTTATAGTC
AATCATTCAGGGAAAGAAAAAAGTCTTGAGCTCTAAGGAGAAAGATCAAGTCAGAAATCTGTTAAGGTTTGACTCTGGA
AGAGCCAGCTGGGAATGATGGCCGGCTAGTTCAAGTCACTAAGCAACAGAACAGCAAACTGCTTGGTAACAAGATCTGG
CCTGACTCACAGGCTCTCTTTGAGTGACCTAGGTGGCCAGATAGAGGAGGACCAAGACCCATCTTACCTCAAAACAATA
TCCTTCCATTTCCACTTTGCCAGCCTTCATGCCAAATTCCACATTATAGAATAGTCTCTTTGACTTGAGATATTTCCTT
TTAGAATGGAAATATCTCTGGGACTAGAAGCTAATATTGTTGTCTTTCTTCTCAGAAATAGTGTTTCAGAGATTGTTTT
CTGTGATTCAATATATTATTTAAAAAGTGTAAGCTTTAATAAGAGCAAACAAAGTGGAAACATTTGAGTTGGTGGTCTG
ACTTTTGGTTTTCGTAAGCAAATGTATACAGGGCCAAAACTACCTACCTTCATTGGGTGCAATCTTTCTTTCCTTGGGC
TCTCAGACTGAATGTGTTGACATTTATTTGTCATTTTCTATGTTATGCTGTCTTCTAGTTCATGTTTGTATTTCAAGTA
TGTAGCTGGACTGTAAGTTCCTAAAAAGTAAGAACCGGCCGGGTGCGGTAGTTCATGCCTGTAATCCCAGCACTTTGGG
AGGCTGAGGCACGTGGATCACTTGAGGTCAGGAGTTTTAGACCAGCCTGTTCAACATGGTGAAACCTCGTCTCTACTAA
AAATATAAAAATTAGCTGGGCATGGTGGTGCATGCCTGTAATCCGAGCTACTCGGGAGGCTGAGGCAGGAGAATCGCTG
GAACCTAGGAGGCGGAGGTTGCTTTGAGCCGAGATTGCACCATTGCACAACAGAGGAGATACCATTTCAAAAAAAAAAA
AAAAAAAGTAAGAACCTCCACATTCATCAATCATTGTATCCACTGTGAAGGTACAAGTGCCACCTGTATAATATACATT
CAATAAATAGTTGTTTTTTGATCGATTGAGAAACATACCTTCTGTTGCTGTGTCTTTTATGCTGAACACCCAGGGGGAT
CCATACCCTTCCAGACTAGAAGTCCTGGTGATGTTGGTTTTGATTGCCATAGTGGAAAAAAACTTTGAACTCAATGATT
AACCATTTGTGTGGACTTTGTCACCATGACTCAGTGTGTGTCTCTGTGTGTGTGTGTGTGTGTGTGTGTGTATGTTTTG
GGTTTACATGCACATAGATTGGTATAGTTGGCTTTGGTGTATATGAATGATTCTGTATCTTATTATTCTGTCACAATAA
TTTGTCAAATACATGCATTTTAATATTTAGCTTATACTTTGAAAATTATTTATGCCTGTTATATTTCTGAAAAAAATCT
GTGTAAATGTATCTATGATTCTTGGGAAATTACTGAATAACTAGCTTGTTAAATTCTGATGACTAATCCTTATCTTTTA
GAATTCATAACAGTTAAATTATATATCAAGACCTAAGCTTACAAAAGAAATGTCAAGATTTTGAGAAATTTGCAAAAAA
AAACCCTTCATAGTTTCATTTTCAGTGTTTTAATTTGGAGAAATTTTAACTGGCAGAAATTAAGTACCATTTTTCCAAA
GTAGATCTTCAGAAGAACTAAAATAATAGAAAACCTTTTTGAAGGGGTTTAGCATAGAAATATTATTTTAATATAAATA
TTTTTATACAGTTAAATATTATATATATCATTTTTAAATTGCAGTAATTTGAGACCAATTTTTCCCCATTACCCTTTTG
AGATAACCCTCTGATTAAATTAGCTATTATTAAAATAAAGTGGCTTCCTCTTCATGTTATTAGTAGGGTACCAGTTTTT
TGGTTTTTTTTTTTCATACATGGCTAATTTCACATTTATAAATGGTGAAGTGTGTATTGTTGACCTTTTGAAGCAAGCA
ACTTTCTGACTTAAGATTACTTGGATTATCATTCCTGCTTGTTTGCCTTCTTTAGGTTAATAGTATTTGTTTTACTTTG
CTTTATTTTGTGCAGTGTGATTTTTTTTATGACCTTCTATTGAGTGATTGCCAAATAGAACAGCGTATGATTTATGGAT
ACTAATAACTAAAATATATATGAATTGCAGGCTGATAATGCACAAGGCTGATTTCTACAGTTCTCCTCTGAATAGAACC
AGGCTTCCTTTAATAAAGCCTTCTTACTAATAAGAATAGCAGTTTCACTAACACATTGATCATTCTTGAATCACCTTCA
CAATTTTAGGTGCAACTGTGGGCCATTTATACTGTTTACATTTAATATTTCTAGTAGACTTACATTTTTATTTAAAAGG
CCATATGTTTAAAAATAAAGCTTTGTATATTACTGTAATTTGGAACTAGCGTCATTTATTATGCATAGAAGATAATTGA
AAAAATATACAATAAACAAGGCAAAATAGATTCAAGTTTAGCTAGATAACCATGACCTTCCAAAGACTCTGAGCCTGAG
GTCTGTTCTCTGTTTAAAATGGCATTTAGCAAATAATATAGACATATGAAAGACCACAATTAAGTCTTTCTTCTTAAGG
TAATAAGAATTACTGAAAGGGATTTGGAAAGGAAATAAGCTTCTCCTTATTTAATTCAACATTTTAAAATTCAATAAGC
CACATCAGCTATGCCAAACACCATCTTTGTACAACCTCAAACCATCTAATATACCAACCTGAACCACTGATACTTCCAC
CATAGGAAGAGGGACATTTGTTCTTGCAGAAGTTCTTCTGTTCTCAATCCCTTAGTTGCAGGTAAACACACTGAACTTG
GATTGGGTGATGCTAATCCCTAAGCAGAAAGTATGTTGGTACTCTGTTTTCCCACACTGTAATTATTAAGTTCTTACCT
GGTAGCTGCACAGATGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAATGTTCTGTGGAAAATTCTGTACCTGCCAATGGT
AGATTCCAAGTTTTACTTCCAAAGAGTGTAAACATGGGTGTTTTAAAAAGTATGTCTCAATGCAAATAAATGAGAGCTA
AGTAAGGAACCACATTTTTCTACCCTGTAATCTTTTTACTCTGTAAACTAATTACTTTCCATGCTAGAATGCTCACAC
AGCACTGGCTACGTAATTTGTAGGGCCCAGGTAAAGTGAAAATACAGGGCCCGTTACGCAAATAAATATTACAAATTTC
ATGATGGCAACAGCACTGCATTCAATCCAGCACAAGGCCCTTCTGAGAGTAGGATCCTGTATAACTTCATAGGTCACAC
CTGTGAAGCCAGCCCTGCACCCACAATAGGTCTGATGTGATGCCCAGAAAGTCGACTTTGTAAGCCCTACAGGTGATGT
GGAAGCCATACGTTGAGAAACTGTCTTAAAGGGACATCTTTTTAGACAGTCTCACTCTGTTGCCCAGGCTGGAGTGCAG
TGGCACGATCTCAGCTCACTGCAACCTCTGCCTCCTGGGTTCAAGCAATTCTCCTGCCTCAGCCTCCTGAGTAGCTAGG
ATTACAGGCATGCAACACCATACCCGCCTAATTTTTATATTTTTGGTAGAGAGGGGGTTTCACCATGTTTGCCAGGCTG
GTCTCGAACTCCTGACCTCAAGAGATCTGCCTGTCTCAGCCTCCCAAAGTACTGGGATTACAGGCATGAGCCACTGTAC
CTGGCCTTAAAAGAACATCTTTATTCATAAGCTCCTCATTTTACACTGTTGATAGAAACTTCAGAAGACAATGATATGC
GTTGAAGTAAAAAAACAGAAGTTCCAAGAAAAGTCAGAGTTGGACCAGCTATAAATTAAAGAGAAACATTATCTTACAT
TCATCTTGAGAGTTTTCTTTGCAAATGAACACGTACATACACAAACAAACTTAAAGCAGCATTGCCTTTGCATTTAAAG
TCACTTACTGATATGCACAGTATTAGTCATGGCAAAATATTATTAGCATTTGAAATTGATGCTCATCCCTCTTTGTTGA
TACTGTCTCATTTACTGGATTAACTTTATTCATATGAGATCTCCCTTTTCTTTTCATTGTCTCTGTTTCCAGCACCTTA

Fig. 6.185

ATTGAAAGTACCCCCGGTTACATAATTATTCCTTTGACCTTATTCAGTATGTTCCCTGCACCACAAGTGTCTCTCCTCT
GTTCAATTCCAACTGTCAGCTCTTTTAATAAACC[illegible]TACTCTTAAACCTCATTTCCCAGGCTCAAGTTCCATATGCCTCC
TCTGGACATTTCCACGTGGAAGATCCACTCTTAATTTATATTTAACACGCACAAAACCAAGCTTACTGTGCCCCCCTTT
TTGATTTTTCTACTTCTGTTTATCTGGCCATTATCTTCCCAAAAAAACCAGAAAAAATCATATTTGACTTCTGCCTTGCC
CTCCTTCTGCCTAGGCCTATGGATTATTTCACCTATTATCTCTTGCTGTTCTGTTCCCTCCCAATACCACCAGGTATTT
TAATACTTAGATTTGTGTTTGATCTATTTCAATAACATTCTAACTTGTCTTTGTGCCACTAGCTCCTTCCCACTAAGGA
TGTCCTACTTATACTGTCTCATTAATTACCCTACAGTTCTGCTTTGATTGTCCACTATCTATAGCAGAGGTGAACAAAA
GGACCAGAAAATAAATATTTTAGGCTTTGCGGACCCTATGGTCTCTGGGGCAACTATTCAACCCTACCACGGTAGTGCA
AAAGAAGCCCAGATATACAAATGGACATTAGCATGTTCCAATAAAACTGTATTTGCAAAAACAAATAGGCTGAATTTCG
CCCACTGGCCGTAATTTGCCGATCCCTGCCCTGTAGGATAAAGTTCACACCTTTAACATGGCATCTAAGCATCTGTCAT
CAGTTCTGCACCTATCTCTGCAACCCTATGTGTTATTGTGTCCTATGGATACTTCACATCCTTCGTTTTGAAGCCGAAT
CTAGAGCAGGGTTGCTCAACCTCAGCAGAACTGATGACTGGGCCAGAATGATGCTTTGTGGTGGGGGCTCTCCTGTGCA
TTGTAGGAGGTTAAGAACATCCCTGGCCACTGCCCACTAGATGACATTAATTTCCACCATGAGGTGAAAATTCAAAATG
TCTCCAAGCACTGCCAGTTTTCCCTTGTAGGGGACGAGGGATTGTTTTCAGTTAAGAACTACTGCCCTAGGGAGTAAAT
TTTGTGAAGGGGGAGAACCAGTTCTACCTCATTCACAGGTGTATCCCTAGCACCTAGCACAGTCTTGTGATATACAAAGA
GGTTCAGGAATCTATTGCATAGTCCAACTCTGCTACTCACTGTGGGATCCTAGGGTTATTTAAATTCCACAAATCACAA
TTAAGTTCATCTGTAAGTGGAACTATTACTAATTCATACATGTTTCATAAAATTATTTAGAAGTTCAAATGATATATTT
AACAAAAAGACCTCTTGAAAGACAGTAGTACTTTCAAATAAAAGGTAAACATACAATTGATAGAACACTGAAGGTGATC
TGAGCCTATTGAAATCTAGAAGCTTAATTTGACTCACATACTCTGTCTACACTGTACAAATTACTATATGGGATGTTAT
TGGGGCATTGTCTTTGTTCTCAAGGATTATGACCTAACAGGTGTTAGAATATGATTACTCAACCATAAAACAATAGTTG
CCATAACTAAGCATAAAGAGTGGTTGGAATTTATGGAGGGAGACATTGTATCTGGTACTAGGAATCACTTAAGACCTC
ATGAGTGAGATGAAATAGTCACAGAGAAGTCCCAGGCACCCTACTGAGCATTGTCTTAGATGATCTCATTGAATATTCA
CTGCAACTTGATTAGGTTTAGGTTTTATTATCACATTTCACAAAGAGAGAGGGGCCTAGGAAGGAATTTGATATGAATG
TGAAGCATGGGAGATTTCAGCAGGGAGAGAACTGCAGTGAAGTGTGGAAGGAGGGGAAGTGACAGGAGGTGTTTTCTCA
CCAAGGGAATAGTGTGAACAAATATGGGGATTACATGGGGTTTAGGTGAGTTTGAGTGCCTCTAGGGAAGGTAGGTTGG
AATCAGATTTTGAAGGATTGCTAACATCTCTCTCTCTCTTGCTCTCGCTTGCTCGCTCGCTCGCTCTCACATCACACAC
ACACACACACACACACACACACACACACACACACCAGGGATTTATATGTATAAAAGAAACATGATGATGTTATCTTTCC
TAACAGCTTCACTCCACATAACAGGAAGTGACATTTTGAGTTCTTACCCCATGCTAAGCTTGCTAAGCCACAAGTATGT
GCACTGAACACTTTCAATAGTTGGACTTTGAGACTCAGTTCAATTAGACCAATCTATACCATCTTTCAGCTAGCTACTG
CTCTTCTACTTTTCCCAAGATAATCCTTCTGAAATAGATACACAATGCTGTTTTCATTCAAATCAGATGTGTTAATTCT
ACTAGTGGCACTTGTGTTCTGATGCATAGAACAGAGGCATTATTTACGTGAGGACTGTGCCTTCCTTCTTACTGAATTG
CAAAAGTATACAATTCTTAGAACACATCTAGCAGTTCTGAGGGGCTGGACACAGAAAACCATCTTACTCTGAAGGTAAT
TTTCTCTATTTTATCACTAGCTCACCAAGGTGAGAGTCAGGAGTGAAATATCCTATTTTCTTTTCATCCATTCAAAAAA
TAGTTTGAGTGTTTCCTGTGTACCTATTGTTCTTCTGGAGATAGAGAACTGAATGAAATAGACAGTCTTCCATACATTG
GGGCATACTTTTTTTTTTTTTTTTTTTTTTTGAGACAGGGTCTTACTCTTTTGTCCAGGCCGCCTAGAGTAAAGTGGCA
TGATCACTGCTCACCTAAGCCTTGACCTCTTGGGCTCTGGGTTCAAGAGGCCTCCCACCTCAACCTCTCAGGTAGCTGG
GACTACAGGCACATGCTACCAGGCCTAGATAACTTTTTATTTTTTGTAGGGATGGGGGTCTCACTATGTTGCCCAGGCT
GGTCTCAAACTTCTGGGCTCAAGCCATTCTCCAGCCTCGGCCTTCCAAAGTGCTGGGATTATAGGCATGAGCCACTGCA
TCAGGCTAAAGAGCACATATTCTAATAAAGGAGAAGACAACACACAAATAAATATTCCAGTGGGTCAGAGAAAGACAAG
TACAGTATAGAAGAATAAGTCAGGGTAAGGAGTTACAGAGTTGTATGTAAGACATTTCAGCAGAGATCTGAAAGAGATG
ACTGAACGAGCTATATGATTATCCAGCAGAAGTACATTTCATTGTGATTTCAAGTACGCCAAATGTGGTTGGCGTATTT
GAGGGAGGGGGGAAGTTATAGAAAATGAGGTAGGAGCCACAGAAAGGCATCAGATCACATAGTGCTTTGAGCCTGTAGT
AAAGACTTGGGTCATTCCTTGGTGATGACTGTGATGTATTGAAGCAAAAAGTGTTAGTAGTAGGAATGTCTGTGTTAGG
AAGGGACACAGTCTATCATAAGTTTTGGAAGAATCATCCCGGCTCCTGTGTAGAAAGTAAAGATGTGGGGAAAATGGAA
GCAGAGACCAGTTAAACTATTGAAGTAACCCAGGTAACATGTATTGGCAGTGTGGACTAGAGAAATAGAGGTAAAAGTA
GTTAAAAAAAAAAAAAAAAAAAAGGTCATAATTCTGTCTACCATTTGAAGACACAGCCAACAGAATTTGTGGATGCATT
GGATGTGAAGAGTGAGAAAGAAGAATCAAGAATAACTCTTAAGTTTGTGGACTTAGCAACAGGTAGAATGTAGTTGTCA
TTTGTCAAGCTGAGGAAGATTGTGGAAGGAGCATTTTTAGGGGAGGTGGATCAGGAGTTTAGTTTTAAAAAATTTATTT
TGGGGATGCCTCTTAGATTTCTGCATGGAGGTTTCACTTAGATAACTGAATGTATGAGTCTGAAGTTTGGAGCACAGAT
TAGCACTTGAGATGAACACTTGAGAGTTATTAAAATGTAGGTGGTATTAAAAGTGATAAGTCTGAATGAATCACCCAGG
GAGCAAGTATATATAGAGAAAAGACCTGAGACAGTTGGGGCACTTTAAAATCTAGAAATCAGGAAAATGAGGAAAACTC
AGCAGAGAGGCCAGTGAGGTTGAAGAAAAATTGAGAGTGATATCTGGAGGCCAAATGAACAAACTGTTTCAGGAGAAAT
AAGTGGCTGGGCATGGTGGCTCACGGCTGTAATCCCAGCACTTTGGGCGGATCCCCTGAGGTCAGGAGTTTGAGACCAG
CCTGGCCAACATGGCAAAACCTCATCTCAAATAAAATTACAAAAATCAGCCAGGCGTGGTGGCAGGCACCTGTGATCCC
AGCTACTGGGGAGTCTGAGGCAGGAGAATCATCACTTGAACCCAGGAGGCAGAGGTTGCAATGAACTGAGATCATGCCA
CTGCACTCCAGCCTGGGTGACAGAGCAAGACTCTGTCTCAAAAACAAAGAAACAACAACAACAGAAAAGTGATAAACTG
TGGCAGATGCTGCTCATAGGTCAACTAAAATAAGAACTGAGAATTGATCATTGCATTGGCAACATGCAGCCAATTGGTG
GCATACAACACAAGTCGATCAGTAGAGTAGTGATGATACAGGACTGACTAGAGTGGAATATAACAAATTTCCCCAATGC
TTAAACCAACAAGCATTTATTATTGCATACAGTTTCTGAGAAATCAGGGAGCAGCTTAGCTGGCTGGTTCTGACTAAAG
TTCCTAGAAGAAATTGCACTCAAGTTGTCAGTGAAGGCTATAGTCATCTGAAGCTGTATCTGGGACTGGAAGATCAGTT

Fig. 6.186

TTCTAAGATGGTGCTGTCCGCAGGCAGCCTTGCTTTACACTGGCTGTTGGCAGAAGACTTCAGTTCCTCACTGTTTGTG
CTTCTCCAAAGGGCTGGGTGTTCTTTTTTTTGTTGTTGTTTTAATACTTTAAGTTCTAGGGAACATGTGCACAGCGTGC
AGGTTTGTTACATATGTATACATGTGCCATGTTGGTGTGCTGCACCCATTATTAACTCGTCATTTACATTAGGTATATC
TCCTAATGCTATCCCTCTCCCCTCCCCCACCCCACAATAGGCCCCGGTGTGTGATGTCCCCCTTCCTGTGTCCAAGTG
TTCTCATTGTTCAATTCCCACCTACAAGTGAGAACATGTGATATTTGGTTTTTTGTCCTTGCGATAGTTTGCTGAGAAT
GATGGTTTCCAGCTTCATCCATGTCCCTACAAAGCACGTGAACTCATCCTTTTTTATGGCTGCATAGTATTTCATGGTG
TATATGTGCCACATTTTCTTAATCCAGTCTATCATTGTTGGACATTTGGGTTGGTTCCAAGTCTTTGCTATTGTGAATA
GTGCTGCAATAAACATACATGTGCATGTGTCTTTATAGCAGCATGATTTATAATCCTTTGGGTATGTACCCAGTAATGG
GATGGCTGGGTGTTCCTACCTCAGGCACAGGAGTCAGTGATTCAAGAGAGTGCAAAGTAGAAGCCACAACGACTTTTAT
GACCCAGACTTGGCAGCAACACACTATTACTCTGCCATATTCTTCTGCTCACATGTGCCAACCCTGGTACAGTGTGAGA
GAGGACTACTCAAAGTTGTGAGTATCTGGAGGTGAAGGCCTCCTTATAAAAGGACTAAGTCAAGTGGATTCAAGAGATG
ATGGGAAAAGAAGTGGTGGCAATTGTTAACTCTTGGAGTTTTGTTGTAAAGTCAGTTGGAGGGGATAGGAAGAAAAATG
AGATATGGGCAAAGGGTGTGTTGTCAATTGTATTATGTTTGTGTGGTTTTGAGAAAGAAGCAGCAGAAAGGGGACATTT
GATCATGAGAAACTGGGGACAATTGCAGGAGCAATATTCTTGAGGAGGCTTTGGGGGAATAGGGGTAAGGAGAAGTTCA
GATAGTGCACAAGCCAAGGAGTTGCCCTTAATGGGAGTGCTGATTGTTCAGTCCTCACAATAAATGAGAAAGAAGAGTA
GGACAGTCTGAGAGTATAGGAGGTCAGTATCTTGATAGATCTGGTTTCAGAGTGTATGAAAAGTGTCTCTTAATTCCTT
CTATTTTGTGATAAAATAATAAGCTCATCAATGTAAAGACAGAGAACAGATGTTGGAGGTTTGAGGAGAGAGAAGGTGA
GAAATGATCCATCATCTCTGGGAGGAGAGAGTGCTTTGTCTAGAGAAATGTGAAATTCCCAGACGGCACTAAGGAGCCA
CCTCAGGCCAGTAGTTACAAATTCAAAGTCATCATGGTTGTGTTTTTCCTCAACTATCATTGACTGCTTAGGCCACAAC
AAGCACGGTTTGAAAAAGGTTGGTTTAACAGAGATGAGATATTTCAGTGAAGTCTGAGTTTTAAAAGGATATGCAAAGA
AGTGATTATGCTGCCATATTTACTCTAAGCTCACTAAGGAAAAGGGGACATAAGTTTGGTGAGGGTCAGAACAACTTCT
AAGGTCAATGCACTGGAGGACTCATTGGGTTTGGAAGATTTTTGGAGTCAGAATACTGGAGGGGATGAGCTAGAAAGAG
AGAAGGTAGGGAGAGACGCTTAACAGTGGTTATGGGGCACCGTTATCTGTCATGGCAAGGCCTTGCTTATGGTAAGGAA
AGGAGGTTTCAGGTAAGATTATCTGAAGGGAGATCCAGAAACTGGGAGACCGTGGGAGGAAAAGATAATTATGAGTTAT
GTAAGAGTTTGCGCTGGAGAGAGACAGGGCTAAAATGTTTAAAGACTGAGAGGAGAGACCTTTAGGTCAGTAGAAAACT
GGATTAGGAGGGGAGCAGATTAATGATGTGAGTTACAAAGACATTTTAGGGCAAGGAAGAGATCATGGTCTGGAAGCAG
CAGAGAAGAATGAGAAAGACTCCTACTTCACTAGGGGCAGAGGTACAAACATGTGGAAGGAAAAATAGCCACTGCATCA
GAGGGCTGAAGTAAATCCGTATTCTCGGTGGGCAGCCAGTAGTGTCAGAGCAAGATGGTGCAGGAAAGTCAGAGAACAT
GCTGAAGATACAGGAGCATAAGGAGATTTTGCTGATGACAGACTGAACGCTAGGAGTCACGCTGGCGAGTTTGCAGGAA
TTGGGGAAGGCTGGGGATTTCAAAGTAGGGGATTTACAGAGCCATCTGGTGATGAGCAATGACCTGGCAGTCTTGGACT
TTGTGTGGTGACGGTTGTGTATTCAAGACAAGGACCTTGGTTTTAAGACCATGTAGTCAGACAAGCACAAACTCCTCTG
CTGGGATGGCCGGTTTCTTTGGTCTATTTAATTAGTTCCAGAAACAGTAATTCATCCTCACTGCATTTATAGAAATTGA
GGGGAGAGGTGGTGGGTACCAGACTGGCCAGGTCTGCCCAGTCATCTTCACTTCAACATTCCTGTCTGGTAAAGTCATA
TTATTCTCACATCTTGGCCGTGTGTGTATGCTCCAAGAATGAGACAGATGACAGAAGATACAGAAAAACAATTGGGAAA
TTGCTAGTTTGCAGATGTATAGCCCTGGCACAGATTTTCTAATATGAAATTGCCATTTTTTCCATGATTTGGACACAAA
ATCCTGTTCTTGAATATGATGTTCAGCCTAGATATTGAAGAACTGAAAAATATTTTTGAAAAAATATATATATTGCATT
TGTCACAACAGTTTATACACATAATTATCACAATGATATTGCTTTTCTTAAATAAATAGGTTTTATGTGTTGGCATGAA
ATACTTTTACAAGATGATGCCAGGTTTTAACATTTATACAGGAATATTTTCATTATCATAATTGTTAATAAAACAAATA
TGAAATGTATAGCTTTCTCTTTGGAGTTTGAATTGTTGGTTCTTACTGCCTGCTTGCATATTTATATTAGTTGTACTGG
CTGGCAGTTATTAGGAAATACGATCTTCTGTGTCTTAGGAGTGCGCCCTGCAAGCAACATGTGCAAACATTTTTTTCTT
TCTTTCTTTTTTTTTGCCCTAAGGAAAAGGGTAAGCTCTGGCACCTTTTAACCTGTAAGGATTATGTGGCTCTTGCTGT
GATTGATTGGTTGGCTTCTCCTCAAGAAATGCTCCTGGTGCGTATTTTATGTTCTCACAGAGCCAGGGCTTTGCTGATC
AGCACGTCACCCCTGTCAAGACGTGGGCTTGCTTTTGTGCATTTGCTCTTGCAGCCTGGGAAGCATATTTCAACACACT
GTCCAGAATTGGCTAGAACATGCCTGTCACTCCCAGCTGACTCTGATGACGCTCTTGCCAACGTAGATTTACATCAACA
CAGTTCTTTACTGGAAAAAGCTCATTCAGAATATACAGGGTGGCCCATTTAAAAGAGGCATAGCGTCAATTTGAAGAGA
AATATATTTTAAAGGGAGAACTCTAAGAAATACACAGTCAATTGAAGGCTCCATGGAGCATAGAATTATAACTAGCATC
ACCCGAGAATTTTTCCCCTGGAGATTGTCCTAAGCTCTAACTTCTAGAGACTGGCTTATCCTGAAAAGAGAACCTTTCT
GTTCTAGACTTTTTCTTTCAGCATGCTAGATATGTAGGCATTTTTAGCCTCTTCTTTCCCTAACCATATAATCTGAACA
CCATATTCATTGAAGAAAGCATGAGATGTGAAAGCTGATAAGATGCAGGATTATGTGACACCATTGCTTTTTACCTGTG
CAAAATTCAGTTTGGTAATCAATGGAAATACAGATTTTACCCTTCACATAAAATTGTTTGGCATATGTCCATCTTGTTT
TTTGACTCATCCTTGATATCACAATGAATGTTTGGGATAGGCATATTACTCAGATGTGTGGGTCTATAGACAGGAAATC
AGGCATTCAGAAATAAAGCTTGTTACCATAGCTATCCAGGAAAAAAATACAACACTGTCTTTGCTGTACAAAAGAAAAA
TTCAATACTACTGTCACATGATATGTGATTACTATTATTATGACCCAATGCTACTCACCCTTCATTTTCATCATTCTAG
TCTATTTCAGGTCATTACAGTAATGGATACAACTGAATGGGTTTGTAATTTTACCCCTTCTCTCATGACAACCAGCAGG
ATTCTCAATGACACATGCTTTGATCTGTCTGCTTTTAAATCTCTTAAGCAGGGTGGCTCTAGATAGCTTCCTCTCAGAA
GATTTTATGATTCTAATAGACCTCATGATGAGTTCTATATTTGTGCTTGTTTAGATACATCAAAGTCAGGCTTTATACT
AGGGCCACCTGGAAAGTTAAGGTCATCAGCTTTTTGTTATAGTCATTGGATTACTGTGATGCTCAGCAATAACAAAGTT
TGACCTTGTAAAGTGATCAAAAGTTGTGGGTTACAATATAGGAATATTAAAGTATATTCTGCCATGATGTGTCTTCTGT
TGTAGTTTGTCTAGAATTAATATTACAGTCACAATTAACTCCAAAGTGTTCTATACTGCTTGCATACAGTACAGTGGGA
AAGAAGAGATGTCAAAATCAGAGAAATAAGATTCCTCCATTATGAATTAACATACAAAATCTACACTTAATGCATCAGA

Fig. 6.187

ACTAAGATGCAATGTTTTAAAGAGATTGAGTTGACAGGTCAATCAGATGGTAGGACTGGTAAGAATTTGAGCAGGCATA
AACAATTGGCAGTATGTATTCAAACACTGTTTATGAGAGTGAGGAACTATTGGTTAACAAGCTGACATTAAGCATTTAG
ATTATATAAATCACCTTATTAACTGCATTCTATCTATGGATCTATTATCGATCTGTATCTATCTATCGATCTGTCTGTC
ATCTTTTGTTTTGTCTGGTTCCATGCTTCCAAAGACATTTTCTGATCTTCATTGTTACATAGTACTCTCTACTGAGTCC
TAAAGAACACAGTTCTGTGTCAGGCTGATTGAAGTGTAATGATTTGAGTGATGATTGTAGTGCTCAATGAAAGGAAATA
AAGAATATTTGGACTCTGTTCAGCAGTCATATGGGCTTGTACAATATGAGTCTGCTTTTGAGAGAAGAAACTTGCACAA
ATGTCTCTTTAAGAGCCTGCTTTTAATTCTTTTGGGATATATATCTAAGTGTGTCTTAAGATAGTTCTATTTTTAATAT
ATTTTTTCATACTGTTTTCCATAGTGGTTGCACCATTTTACAATCCTATCAACAGTGCACGAGGGTTCAATTTCTCCAT
ATTCTTGTCAACACTTACGTGTGTGTGTGTGTTTACAGTAGCTATCCTAATGGGCATGAAATTATATCTTATTGAGGTT
TTGATTTGTATCTCTCTATTAGTAATGTTGAGCAGCTTTTCATGTACTTGTTGGCCATCTGTATATCATCTTTGAAGAA
ATGTCTGTTCAAGTTATGTACTCATTTTTTGGTGGAGTTATTTAATCTTTTGTTTCTAAAATGTTTTGAATAGATCAAG
GTTTAACAGTCATTCCTCTGTGTGCTTTTATGTCATGTTTAGAAATGTGACTCCATTTTAAGCTTCTTAAATCTTTTTT
TACTTTACCATTTTTTGGGGGCTCTCTTTTTTTATATTTAACTTTTGTCTATCTGTAATGTGTTTTGATTATGAAGAAT
AAGGAAAAAAATTTAGGGTTTGTTTAGCTTCCCAAACCCCACTTTATAGAATAATCACTGATCATGTACTAACTTATAAT
ACTTGATCATTTTAAGTAGGCTTTGTTATTGAGTTCCACATTTGGCACACCTACTGGTGTAATGATTGCTCTAGTATTA
GTGCAATAGTATCGTGTTAGATTTTGTTTGCAGTGTGCTAAGTGGTAAACCTCAGCTATTAATCTACCTTGACTAAATA
TGTAATTGTTCCCTTTATTAAGCCCTATTTTCTTTCAAAATAAATATTAACTATGTTTCCCACTCATTCTTTTTTGGGG
GAAGAGTAAATATAAAGAAATGTTTCCAGCAATGTGGGAGGCCAATGTGAAAGAATACTTCTATATTATAGAATGACTA
TTTTTGCAAATGCAAAATGATAACAGAATTCCCAGATAAGGAATAGCAATGACTGTTTCAGGGCATTACCTAAGTGTGT
TTCTTGGGCTAAATTTAGAATGCCTGATTACTGCACACCTGGTATGAAAATAGAAAACCCTTGTGCCTACATCACATAA
TGCTTACCACATTGAGGTACAGATAAAAGAAGTTCTAGAATTAGGGTTGTTCAAAGCCTGGTTTACTATATTTTGGATA
TAAAATGGAGTAAATCTCATAATCCTTCTGAACATTGGTTTTCTCACTTGCTAAATAGGAATAAATAACATGCATGAAT
AGTATAGAATGGTTGTCCATGTGTCTAAACATGATAATTTGTGGGGTATGTACTTTATAAATGATTATATGCAAAAAGG
ATGGCCAGACGCAGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCCAAGGCAGGTGGATCACCTGAGGTCAGGAG
TTTGAGACCAGCCTGACCAACATGGTGAAACCCCGTCTCTACTAAAAGTATAAAAATTCACCAAATATGGTAGTGCATG
CCTGTAATCCCAGCTACTCAGGAGGCTGAGGCAGGAAAATTGCTTGAACCTGGGAGGTGGAGGTTGCAGTGAGCCGAGA
CTGCGCCATTGCACTCCAGCCTGGGCGACAAGAGCAAAACTCCATCCACACCCTACCCTCCCCCCAAAAGAAGATGATG
ATGATGATGATGATGATAATTGATATCAGTAACAACAACAGTAATACTGGTGATAGAAGATCCTTCTGGTGCAAACCAT
TCTCAACAATATGTTTGCTCCAGAGAAGGTAGGGCCAGACTCCTAATCCCAATGTTGTTTAAAAGCCCATTCAGATTAT
GAATTCATTTGAAGCATTTTAGGACCCGAGAGACTACTAGAAGTTTACCGTTAAACTTAGATGACATACAGTTAGAAAA
ATTTTCCATAGTCAGCTTTTTCTTCTCCTGTTATCTTCTGTATTTTACTAAGAGAATGTTTAGTTTTAACTACTAGAAA
AACGTAATTTCAGGTTGATTAAAAGAGAAGAACCTAGATATGTAAATAAAGATGAATCTTTTAGACATGTAGTCAGTAG
CTTTCATGTTACTAATGAAAAGTTCTTCATATCCTATGATTTGAAAGAGGAAAATCAAGTTTTGTGGAAGAAAATACGT
GAAATTTTAAATAAATATACGGCAACTTTATATAGCCAGAGTTAATTCTTCTTTTTCAGTAAATTGTATTACCCTGAAA
CACCAAAATGTCAATAGTACAATTATGGTCATATTGAGAGCACTTGTTATTAGACACACCCTTTAGATTTTTTTCTTTT
GAATAGAAACTGCAAGAATTTTTAAAAACTGGGCTTATTGACTGGACGAAGGGTTTTAAAAAGAACAGAAAGACAAGGC
AGGGCAAATCCTGGTGTATTTCACCTGCGTAGTGACATATAGGAAGAAGGGACCTTTCAGAGATCATCTTGAGTTTTGA
CTAGATGATAAAACTGAGGTTCAGGATGGCACAGAAAAGTGTCCAAGGTCACACATTTAGGAAAATGTGGGACATAGAC
ACAAATTGTTTGATGTAGTTCAGTAGTCTTTTTAGTCTGACCCAGAGCCTTTGGGGATGGGGACGGAAGGAGATTGGGA
AGAGCTTGTCATTGATTCAGTATCTCTGCTCAGTGCCCTCTTGAGGTTTTTGTTTGTTTGTTTTGTTTTTGTCTTTCTG
GTATTTTTCTGTTGTTTTGATCCTGGATTTGGAGTACAAAGAGACTAAACCATTTTCCATATTGCATACCTGACTTTGA
CTTACACTAGGTGCATTGAATGCAAGAAGCAGTTATGTAGAAATGAATTAATAGATAAATTTACTGTAAATCTAGACCT
TTATTGTTGTTCCTCCTATGCTACTAGTTAGCTGAGTGATCACAGGCAAATTACTTAAATCCTCATAGGCTCAGTTTCC
TCTAATTTAAAAGGAGAGTGTTGGGTAGTTGATCTCTAAAGTCCTCTTCAGTGCAAAGTGCTGTGCTTGCCCCTCTTTA
CCTGAATAATTCCTAAGATTGCTGAAGCATCATTATCTCCTTGTTCTTAGCTACTGATTGTATATTTAATTCCACAATT
GGGTTTATCTCTATTTTCATTCATGCATCTTTGTATCATTAATTCCGAAGTCTCATATAAAATCTTTAATTCAAAAAAT
TGAGTGATGGTACAAGAAAAGCAAACTGCCTATGAATTCCACGTGATTGTGCCCCTATTTACAAGGTATAAATGTGTTA
AGAACTTAAAAGTTTTGAGTATTGATTATTGTTGCCAAGTCGTCAAGACAATGCTTATAAAGTAATCCATTATCCTTT
TCCACACTCTTTTCCCTTTTAGAACAAAAATACCAGCAAGAAAAAAAAGGATGACTGTTCCAGGTCATCAAGAAAGTAG
ACTACTTGGTCATTATCAAAAATATTTTGAACATGTGGGCACTTTATAAAACAAAGAATAAACAATAGAAAATTATGTA
CTTAGAAAGTCCAGACTGTTAATAATTTTCTGCACTTAACACAGTAAGTGGGCCCACAGACATTAAGGTACTAAATGAT
TTATAGATGAATTTATTATTCAGTTTCAGGACACCAGCAGCAATAAAGTATTTCTACTTTTATAAATAACTCATATGG
AACTTTTATCTAGTGATACACTAACTCTTGTGTTAGAATGTGTAAAGAAAATATTTTATAATGCAATTGTACAGTGTTG
GAGTGATTAGGATTCAAACCTTCAACTTCCAATGAGAATTTTAATACTTAGTCTTTAAAAATAGTAAACTGAGATTTAT
ATTTATGTTATTTCATACCATCCTATATTCCATAATCTTCTATAACATGATTTTATATTCCTACCTTTTATTCAACCAT
TCTCTTCATATTGGACATTGGCTGTTTTTAATTGTTTTAAGATAAGCATACTTGAAGGTCAATCCTGGATTGGTGCATT
AAGATGCATTCTCAGAAATATGATGTATAGAGTTAAAGAACATTTTAAAGGTGACATCGTGTTCTGCTTTTCAGAGACT
GTTAGCAGTGTGCTTGTAGCGTATTACACTGCTGTATCGCTGTATCACTGCACCATCTCAAATATTGAGTTTTTTTATA
GTTAAGTATTTATAAAATTAATATGTTGGATAAAATCTAATTTATCTCAATTGATTAACATTGAGGCTGCAAATATTTT
TATAGTGTAAAAGAATTTTCTATTGTGAATTGTACATTAGTGTCTTATTGAGACATTAACATTTCCTGTCTTTGTTGTT

Fig. 6.188

GTTGCTGTTGTTGTTGTTGTTTTGACACAGAGTCTCATTCTGTCACCCAGGGTGAAGTGCAGTGGCACAATCTTGGCTC
ATTGCAACCTCTGCCTTTTGGGTTCAAGCGATCCTCTCATCTCAGCCTCCCGAATAGCTGGGACTACAGGTGTGCACCA
CCACACCCAGCTAATTTTTGTATTTTTAGTAAAAATGGGGTTTCACCATATTGCGTAGGTCAGTCTCGAACTCCTCACT
TCAAGAGATCTACCTGTCTTGGCCTCCCAAAGTGCTGGGATTACAGGTGTGAGCCACTGCACCCAGCCCTTTCTCCCTC
ACACTTTTGGAAAAAATATTTTTCTCAGTTTGTTGCTTGCCATCTAATTTATTACATTGCTTTTTAATATACAACTATA
GACAAAAGAATCACTTTTCTTTTGGAAAATTTGATCTATGACTTTCATTCATATAAAAGCTTTCCTCACCCTCAGGTCA
ATGTTCACCTTTATTTTTTTCTAGTTTTTTTAAACTTTGTTTTAATCACTGTGAAAATAATTGAAAGATGATATTTA
GATAAAAATTTGTGTAAAGCTCTACTATTTTGATACAGATTGAAAAGGATAAAAAGAAATGAGTAAGAAGTATGCGTAG
TGTTTAGAATGAACATGAATGATAAACTAATAGGTATTATTTTACAAATTATAGAATATTAAAGATAAATATACTCTAG
AGTATAGAAATATATTTTATATTATTATGTTAAAATATTAAATATTTCAGGCATGTAAAAATAGATGATAGTGTAGCCA
TTTATGCATCAAAGAGTTCAAACCATACAACACTAAAGGTAAAACTGGGGCCCCTAGTGTACCCTTCCCCAATTCTATC
ACCTTTCCTTCCCACCCAGAGGTAACTACTATTATGTGTTTACTTTTCTTGAGTATGTTCTTGAATAGGTGTGTATTCA
AAAGAGACAGTTCCTTTTTGCACTTTGGAAAACAAATAATTCTGCCTTCCCCCCCATGATTGCATTTTATATGTTTTAC
TAAGATATTTATTATAATAAATATTACACCACTTTTCTCTGTCCTATTCATGGGGAAAGGAACTCTTTTTGTTCAAAAT
TTGTCATTCTTATATTGTACTGCCCCATATTCTGCAAATCTGACAACAGAATACATTGTATGACAAATGTGATGTTTGG
TACAAATATGTCAGCTTATGTATGCTGTTGCATGTGTTGCTCAGCATTGCGTGTATTACTGAGCATTGCATGTATCACT
TAGCCTGTCTATAAAAAATTGAGACATTTATTTAAATAATAATTGTCCCACAATCTATTCATGTTTATGCATGTGGATA
TTTGAAGCAAAATATGCCATAGAAACAGTATCTCTTGCTCACTGAATTTTAAAGTATTTTAACATCAGTAGCAAGTGCA
TAATAAATCTTTAATGTATAATACGAACTGATAGAAAAATAGGGCTCTGCATATTTTTTCTTGAAAAACAAATGTGTTT
TGAGAAATATAGCTTTGTCTAATGCTGCCTTTGTAAAACCGGGAAGTCAAAAGACAAATAATATTTTGATTCTATATGT
TATGTTGATTATATATATAGTATGTATGTGAATGTGCATAACTATATGGATTCATATATGCACATATATACACATTCATTT
ATACTCATGAAAATGGTAAAAATCCAGCTAATGATTTAAACATTGGGTCAATAGCAATATATAAAAATAATATTAAACA
TTCAGATCTTTGCAAAATCTAAATGGGCTTGTTTTTAATTTTCATGTGGACATTTGAAATTTTATAGATAAGACTAACA
ATATGTTTTACTGTACTGTGAGAATTTAAGATTAATGAAATATTATGTTATTAATTTCTTACATTTGTAAAGTTGTTTT
TCACAATACCGTGGCCTATTAGATTGCTAAGAAATTATGTATGTCAACTCTTTCTTTATACAAATATTGAAAATGATAG
TAAGATTAAGGAACTTGCCCAGGTCACAATTTTTTTCTTTCAAATTTCATGGCTGATTTCTAGGCAAAAATTTCAGGGG
CCTGTCCAATACGCATGAATTACCCTACTATAAACAAAGCTAGGGAATTTAATACATACCGAAAGGCATTTTGTAATAT
ATCAGAAACTATACAAAACCAAGAATAGTCATAAAATAACATTTTAACATTTTTAAAAAAAGATTATTCCAAATGCCCT
CACTTCCAGGAATGCGACTTTAAAAGCCTAGGCTTTATGTTATGTCATCAAAGTCATTGTACTCAATTAGACAATAGTG
CTATAATTAATTAAATGTTATTATGTAAATGCAGAATTACCAAAGAGAATTTCAAAGAGTATAACAGTATTAAGTCGTT
TCCTTAGTAATTTCTCATTGCTGTGAAAAACATCTGTAACCTAATACATTTATATTCATTTTTCATATTATATTATGCA
CATATTATTTTTAAATATTTGTTAACAGGTAATTTTCTGATTACCAAAGTAATACTTTTGTATTAAATGTTTGAAGACT
GCCTCCAAAAATTGCAAAGAAGAAAATTTTAAAACCGTTATAATCCTACCTTTGAAATAATTATTCTTCAAATGTTAGA
TATTTGGAATGTTTCCAGGTGTTTACTGGTATAGTTAATGCTGCTGTGAACATCTTTATTGCACATACCTTTTAACCTC
TGTGGAACTGATTGCTTCTTTCATGATTTCTCCTATATTTTGTCAATCATTTCCTTTTTTTTCTTTTTCTTTTTTTTTTG
AGACAAAATCTCACTTTATCACCCAGGCTGGAGTGCAGTGGCATGATCTCGGCTCACTGCAACCTCTGCCTCCCGGGTT
CAAGCAATTCTCGTGCCTCAGCCTTCCGAGTACCTAGGATTACAGGTGTGCACCACCATGCCCGGCTAGTTTTTGAATT
TTTAGTAGAGACAGTGTTTCGCCATGTTGGTCAGGCTGGTCTCAAACTCCTGACCTCAGGTGATCCACCCGCCTCAGCC
TCCCAAAGTGCTGGGATTATAAGAGTGTGCCACTGCACCCGGCCAATTGTAAGAATTATTTTCAAAGGAATTTATATCA
AGTTACAGTGCCCCAGAATATTCTGTTATTTTAGCTGTATTGAATATCATAATTTTCTTAACATGTTTTGTCTTTAGAT
GGTATAAAATACTATCTCAATATTATTTTCCATTTGTTTGTTTACCCTTTATATTTCCATTTGCTTGAACTCTCTGCTG
GAATCTTTCAATATCTACCTGATGAATCAATGTTTATCTGTTGGTTTGTTTTCTTTTTTTTTAATTAATTAATTTATTA
TTATTATACTTTAAGTTTTAGGGTACATGTGCACAATGTTATACATGTATTTTATTTCTTTTTGTCACATAAATTTGAC
TCTTTATTTTAAGCAACTATTTCTAGTCTTTTGTTTCTCTTGTTTTATTAAATTTTTATTGTAAAGAAGTTTTGTTTTG
GCCAGGCATGGGGTGGCTCACACCTGTAATCCTAGAACTTTGGGAGGCCGAGGCAGATGGATCATTTGAGACGAGGAGT
TCAAGATCAGCCTGACCAACATGGTGAAATCCCGTCTGTACTAAAAATATTTAAAAATTATCTGGGTGTGGTGGTACAT
GCCTGTAATCTCAGTTACTCAGGAGGCTGAGGCAGGAGAATCACTTGAACCAGGGAGGTGGAGGTTTCAGTGAGCTGAG
ATCGGGCCACTGCACTCCAGCCTGGGCCATGAAGCGAGATTCTGTCTCGAAAAAAAAAAAGTTTTGTTTCTGTGATAGAT
ATTTTGCTTAGCATGCTTGCTTTTTATATTTAGAAAAACTAAATCTATTCCATCTAAAATATATTTTGGTGAATAACGC
AAGATATGTAATCTCAGTGTTATTTATAAAATGTACCATTCTCACTTTCTTATTTTGTAAAGCTTGTTTAATTTCAGAG
TTTGATATATTGAAGAGTCCTATTCCACTGACTTAAAAAATTGAGGCAGAAGGATCCCCCTCAAGTGTCACATCTTAGA
ATTTGTTTGATGGTACTTCAAGGCAGTTGGTGAATAATTTAGAACTCAAACTTTGGGCTGCAGATTGCCTGAATACAAT
TAATAGAAAACAAAATATTTCCTCAAATTACATTCTTTGACATTAGTAATCATTCCTTTATATACATCTCAAGTCTAAA
CTCCCAATCTGTTTATATGCAGAGATTCACAGCTTTAAGATTTATGTTTCATAACTGCAATATCACTCTATGATACATT
AATGGGATTCTGTACTCAACTATTCCATTGGCATTCAAGTGAATAATTTTTATACAAAACTTCTTCAGGAGACAGGCCC
AACTGAAGTGTATCACTTTAAAACAAATATCCTATGGGCAATAGATAAATCTGATATTTTTCTGAGTAGAAGAAACATA
AAACCTCAATATAGGATTAATAGGGTTCAAGGGGTTTTATAAGCACAGTGCTTGTGAAAGTATGTAATTCCTATTAAGG
CTTGCATTCATGAGCACATCATGGTATATGCTCTCTCTGGGAATATGTAAAGCCAGTTTAAAATTCAATTACAGACATT
GCAGTCTAGACCTCCGCAAGCCTTTGCACGTGACTGGACTCACTCAGGTTAATCTCTGAACCAGTTGTAGAGAGCTTTT
TTCATCTCTCCCTCACACATTTCCAAACTCTTTTCTTTCTGTGTTTTTTAACTGTGACTTTTCTTTACAAAAGGAAAAG

Fig. 6.189

AGAATTTTTTTTAAGTCCATGACATATCCAATGAAATCGAAATGATTTAATACATGGAGTTATCTTAATATCTTTTGCT
TCTTGACAGTTCTCTCATATCTATCTAGAAAATATCTGGCCAAAAAAACCCACTTTACTTTGTTTATGAGATATTAGAT
TATTTTGTACATTTTCACATTCCAGGGCTACAAGGAGACCACAGTAGACAAAATCAAACCGTCTTCCTTTTCTTTATAG
GCTTGTCTCAGCAATGCAGCACTGTAATGTCTCTTACTTGAAGGAACTTCATTCTATTGTAAATTCTTAGGACAAATAG
AATAAGGAGATAGAAGAGTTGTGTGAGTTATAACTTATATGTAATTTTCTGTATATATTTGGAAAGTTCAACATCAGAT
ATTGAGTCTATTTCAGTCTGTTGCTGTGAATAGAATACACTATTTTATCCTATTGGTTCTTTTCTTAAACTGTCAACCA
TGGTTTGAGCATAGTTTAAGAAAAAAAAAAATGAATGCTTTAAATAAAACCAGTACCTGGGTTGGAGGTGGCAAATATAT
ACAAACCTGTGTATGTGTGTTTGGGTGTGCGTGTAATCTGAGGATTATAGCCCTGTATCTGTTTCAGGGAGAATTTTTT
TTACATCAGACCATGAAATTGAAAGGTGATTCTGATAATCTATTTCATTAAATAGAAGTTTATGATACCATAGACTCTG
GAATAAAAAATTCCTTAAAATTCCCTATTTAGATTAATGCAGATTTAATCCTTAACCCATTGGTTCAAAACTCAAGTTT
ACTCTTTCAGTAATAACAAGAAGTGGTTGTCAATAATACTCTCATTAAAAATAATTATTTCAGCATTTAAAAAGTAATA
AAATTGGTATTTTCTAACTTATATGCTTAATACTCATCCACAAAGGTTAAATAATTAAGAAATTAAAGACTGTGAAGAA
GAAGGGAAGAAAGAGGAAGGAAAAGATGGTAATATGGATGCTATTACCATTCACAAAAACAACATTGATGATTAGGCAT
ATGTTGACATTTCAATTTTTTGAATCTTGGTAAAATAGTCATTTTAATAACATACTTACCAGATTACTTAAAGTAACAT
TTCAACTCTGTTTCAGCACAGCAGATAACATTCTAATCCATGTAATCATAAGTAGAAAAAGCAGAAAGAAATAGAATCC
TAACACTTTCCAAGCTTCCTTCTCTTTTGTTAGATTATAATTCATGTACATCCTTATTGGGGTATGGAGACACTGGAA
CTTATTATACTACATCTCATCCATTTGTTCTGTCTCCATGACTGACTTCTCAAAATAATCTAAACTCTTCAGTGAGCCC
TTTAAAGTCATGGTTTTATCCTATATCTGTCCAGGATTTTATCTCACGTTTTGCATGTATCCCAGCTCAAAAGGATTAC
TTTTCTGAACTTTCATTGCCCTTGGATTTTGACCTTCCATATACTTGAAATTCTCTCTTTTTAATATCACCACCAATAA
AAATCCATCCCTCAAGACCTCACCCAATTATTATTTCAAACTCTAAATGCTGATCAACTATGTGGAGCTGACCTTTTCA
TCCTGTAAATAAGTGTTATTTTCTCCTTAAGGGATTTGCCACATGAAAACTTTGCAAACAAGGACAGTGTCTTATTCAT
TTTGAATTCTCCATTGTGCAATTTCTAGCTCACTGTCATACAGAACATTACTATCATATTTAGAGGCTGAATAAATCAT
TAAATGGATACCATCACTGGGCCCATGGAATTGACTTACTTAACTCAAATCCATGTGAAAGTCACTTAATAAATATTAA
ATACCATCAATTCTCAATTATTCATGGGGTTATTATTCACAACTTACTTGTGATATGTCCTTAAAGGTCATATTTACAT
AATGAATGATTCTGCCTATTTCATTGGCATAAATAGGTTCATTTAAACAGATTTCATTATTTAATTAGCTCCAATTTTT
CCTTTACCATCTTTTTCAGAAGGCAAGATTTTGCTTTTAGCTGTCTTGCCTAAATCTGAAAGCTCATACTGATCATTTC
CATTTAATAAGGGAAGATGAAAAGGGCCGGTCAGGGGACTGGGATCCAAAAGGTCAAGAGTTTTCCATTCCTTCTTCCA
TCAGATCTTCATAGTGGAGTTTTGTTAATTTGTGAATTTAGTTCAATGAGCCAAAAAAAAACTTGCTGATCAAAACAAA
GCCCCTTTGGTAGGGAGGAAATTCTGTCTCTTTGTTTTCTCTTCCTTTCTCTCTGTGCGTGAGTGAGTGTGTGTGTGTG
TGTGTGTGTGTGTGTGTGTGAATGTCTCCTGACATTTGAAATTCACAGTGCAATTTAACAATAAAATAATAAAATATAG
CTTTTTACAAAAGGTGTAAGCATAGATTAATGTACAGGTTTTCAGAGAAGGACAGGTTAGCTTGCTTCATTTTTAATCC
TTAGGTAAAACAGAGGAAGAGGAAAGTGAATTTTATTGAAATTCACACTATGTACAATGAATTACAAGAGAACTATAGG
AAATGGTTAGATATGATTAAATAATAATTATTTTGAAATTAAGATAAATGTCAAATGGGAATTATTTGCTTTTTCATTA
GGAACTGCAATGATGTTTGCGCAGCAGTGATCTATCTAGACAGATTTTGGAAGATGTCAGCAATTTTGTTTAGTCTGTC
AGCATTTGCAGTGGCAATGATTGGGATTTACTTGATGCATTCACTCTGGAAAAAACCTTTTGTGCACATTAGCATGACA
ACTGGTGTCCATGAAATACAAGAACAACATTCAGTTATAATGCACTTTACACCAAATTAATGAATAGTTTAGGAAGGGA
AGCAAGAGCTGACTTAGATGACTTACAAATATCTGCTTTTTTGCATTTTCTAAGGTAGATAATTTGTGTATATTTACTT
TAAAAAGTATTTTGTAAGCAAAGAAATGACTGAAGGAAACATTAACTCCAACAAAACCTAAATTAATGTGTGTCAATGT
AATAAACTTAGGAAGAAGGCGGTTGCTTGAAATATTGTAGTCTGGCACCAGCTCCTTCAAAATGGCCATGTTTTAAAAG
TATGGCAGGTGTGCTAAAAAGTCTTTATTGCAAAATCATTAGAAAGTCTTTTTTTGTCAGTTTAAAATGCATTCAGCTA
TAAGCAATAGAAAACTAACAATGGTTGAATCATCTAAGGGTTTGTTGGTCTTGTGGAAAAGGATATCAGGAGGTAGCAA
ACTAGGGCTAGTACAGTGATTCTATGATACCCTCAAATATGTGATTTCCTTTTATTCTTTCTTCTGTGCCAGCCATCCT
CAGCATATGGGCCTGTCCTGTGCTTGTCATCTCACGACCATTGGCGGATACTGCTTCCCACGGCACWATCTCCTCATTC
CAGGGTAAAAGAAGAGAAATGGAAAGGAAGTAGGAAGGGATGGTGTCTGTATCAGGGAAACAAGGATTTCTTAGGAATC
CTCAGCTTATATAAACCCAGCTACCTTGCCCCTCTCTGACAACCTGTTCTTTGGCAAGAACAATTTCATATACTTGCCC
CTACCTTCCAGGGAAGCTGAGGAGCTTGTTTTTTTTAACTAGACATATTATTGGGTGATTAACATTAGGCTTATATAAA
TAAGAATGAAAGGGAGAATGGATATCGTATATACAATCAGCAGTGTCAGCCACAGTCTTATAGTTAAGTGGACACCACT
AAATTTGGTGGGATTAGAAAAGCAATTAGTTGGTGAGATATAAAAAGCAATATAACATAAGGGTTTTCAAACAAAATAT
CAGATGATATTACCTGTATACTATTATGTTAGGGGTATAATACCATAAATATGCTAAATTCAGATTAATAAAAAGTTTT
TCACTTTCTGCACAATCATGACCTCCTTTTATTAAAATAGACAAATAGTCTGGGGTTAGTCACACAAAGTCTATATGGC
ACATGACTACAATAATTGATCTGCAACCTCTCTGTTCTTTAAAGTGATTCTGTGATATCAAGGAGTGTTGAAATTAAAC
CCTGGAAGCCACAGAAGATGCCAAATGGACACATTTTGTGACTATTTATAGCTGATCCAAAAATGAAAGGGGAGAATGA
GGAAACTGATTGATAGTCCCCAATTCTGTTTTGATCTGAAATAGCTTGTTAAATGAATCTCATTGTCAGAGCTAGTTTA
AATAATAAATGTCTCTACTCTCCACTATTCCGTGCATATGTGAGTCTGAAAGTAAAAGTTTGTAATTAAAGTGACTGCA
TTTTAAAGTTTAAAAATTGATCTCAACTAATAGCTAATACTAATAAAATAAATAACTGCATTCTAATTTTTTAATTACC
CTGGTTTGGAAGCAGAAACATGTTTTGTACATAGCTGTAATGTTATTTCACTTTAACCTGGTTGTCCCCAGTTTAGTAT
CTACGAAGCTTTGCACGTATCGGAACTCCATACCTGCTTCTCCCTTGGTTTCTCTTCTCAGTGATAAAGGATTTGACTT
CTTTCTTCCCCATTCCAGCTTGCACATTCCTGAAGTTTTCCGGCTTGGAACAAATTATATTACTAGGTCTGCAGTATCA
TTTAGATTGAGAAGTATTGTGATAGAGCAAGGTTCACCCTAAGTATTGACTCTTAGAATCTGCTCATTCCATAGTCTGT
TGAGTGCCTTTACCTGTCACTGTTGTCCTAAGCACCAGGAGTGTAGCGATGAAGGATTTCTAGTCCTAGTTATCTAAGG

Fig. 6.190

ACTCACAATTAGGTTTCTATTCTGGGGCTATTTTGTACATTTGTGTACAAAAGACTGCATTTTTAAGGTGTCTGACTTT
TGACTTGGTTTCAGAAGGCATAAGAAGTTGGTTTCATGGTTACAACCCCATGCCCAGAAAAGTTAAGAGTGGTATTTTT
AATTAATTTGTAACTAGAATTAAATATAGCTAGAATTATATAGGAATACAACAAAAGATTAAGATGTATATACATCCCT
CTGAATAATATAAATATTGACAGGCTGATATTGGGTTTTCTAGACTTACTTTCGTAGGTATTTTCTTAGTATGAAGATA
GTTAAAATATACTAAGTGAAAAAAAAATACTCAAGTCACTGTATTAGTGGTTCCACTAGTAAAACTACAGACCTCATCT
GTTTCTGGAATTTGCAATTTTAAATATTGATTTTTGGAATGTGGCGACTTACACTGCCTACTTTTAGTTTGCCAGGTGA
GCTCATTTTTGAAAATATCCTATACTCTGCATTTATCCTTTGATAAAATCATGGCTATTATAAATTTTAAAAATGGTAA
AGATCATGTCAGAATAATGAATCGTGCTTCTAATTTGATAAATGTAGCTTAATCACAAATATACGAAACTTTCTGTTGG
TCTGGTGCAAACTTTCTCAAGGAGAAGATTTAGTGTTTCAGAACCATTGGAGTAGATGCTATATTAAACATTGAGGCTC
TCTCACCTTTAACTTTATAAAGCTAAATATAGTCAACAAATGAATTGGAAAGACATATTAGTAAAATCTACCGAGTCTA
GGCAGGCCTATGTGTCAGGCCAAGATGCTTCCTGGAATTATTCTGTTCAGAATGATTCCTCTTTCTTTCTCATTCTCTA
AAGATAGGATGTCAACAGTTTCTTCATAAATGTAAGGTTATAAACCATGACATTTGTGAAACTATTGCAATAATCTTGG
GTTGTGTAGGGATAGGATGACATTTTCAGAGGAAATTCTCTAAACACTTTCACATTAATAACATCTGGGAGCCATAATA
TTATAAGCATAAGAAGTGGATCTCATATAAAAACATAAAATATTTTTTTCACATTTATATGAAATAACATATGTACTTG
TAACAACTGAGAGTCCCTGATCAAATTAGGAAATCTACAGCCATTTATTTTAAATCTTGCTCTACCAAAATTGGATTGA
GAGACAAATTAAACACAAATCATTAGTTACATTTTATAACTATAGAGGATGTGCAGAAAACAAATATTCAAACCCAATT
TTATGTACTATATTGTGCCATATAGTCACAGGAAATCTGTTTTCCTTCTAAATTATTAATAATTTAAAATCATGAATAA
TTGTTTATGTAAGACAGCTGGCCAGGCTATTAAGGGAGTACAGCTACACAGTAACACCAAGAGTGAGGTGTCCATCTGA
GCTACCACATGGAGAAAGAGCAGCTGGCTTTGCCCCACCATATTCAGTTGAAAGCTGCTTATTACTGAGCATTTGAATA
ACTTGAAAGGAGAGAAAAGGAAAGAACAACGTCAGGGTAGAATGTTTACTTGTTTGAGCCTCCCAGGAGAAATGCCATA
CAAAGATTTGACTTGATTTTTAAATCAAACCAAAGATCTTTCAGATTACATTGGAGGGCTGAATTGAAAGTTAACATTG
TATAAGTTGTATTATTTTTATGTTCTTTTGTATTATACTATGTTCCCTTTTATATTATGTTCATATTACCATGAACTTT
AGAGTCGGGATAGATCAGAGCTCAAGTCTTAATGTCATCTCTTCCAAACTGTGTGACCTGGGAAAGACATTTAACGTGT
CTAAGCCTCAATTTCCTCATCTATCAAATGGGGATAATATGTTTACTGACTACAAATTAAGTAAAATAAGACCTACAAA
ACTGGGTGCTACTGTATGATAACACAACAGTTACTACAGATGCTATTATTATTAGGTCACGTGTGTGAAGAGAAAGTAA
AAAGAAGACAAGATGCAAAGATAAAGAAGGCAAAATGCAAAGATCCTATTTCAATGAAGCCAATAGTAGTCTTTCAAGT
TGCTGTTCCTTCTTATTTCTCTTCCTTCCAATAATAATAATTCCTATTGTCTACCAAGTATTGAGAGCCTGTCATAGGT
CAGACACATGGCATGCATTGAGAGAAAGAGAATTCAAATTATTCTCTTGAACTTTTGAGCAACTCTATCAATGGGTCTT
ATTTGGTTCCATGTTACTGCTGAGTAAAAGAACATGCTCACAGAGGGTAAGAAACCTGCCCACCAGCACCTTACCAGTA
GACATTAGAGTCAGGACTTTAAACAGGCTTTTGGACTCCAGAAACCATGCTCTGCCTACTCAAATTTAGTAGCTGTTCT
GAGGATCTCATTCTCACTTATTTCCCCTTTTTTATTTGTTTGTTTATGTTCTAACCACTGATTTGAAACAAATTCTCAG
ACCAGAAATTTTTACTCCTGTGGAAAGAGTAATTGGATGTTCTCATTACAATATTTTTTTCTTCATGAATGTAATCAAA
CATCAGCTGGAAGCTTGCTTTTAATGCGTGGATAAACCAGCCCACACATTTTATTTTCCCTGAGGCGTATTGCTGGGAA
AATCTATTTCTGATTTTAAGAAATCAACATATGCTGAACCAACTGTCTATTTTCATTTAAATTGACAGGAGCTGAGACT
CAAAAATTATGTTGTATTTTCCACTTCTAACATTGTTGATAGAAAAGTTGAGGTAAACACTTTATTCTGCCTTAGATGC
CTGCTAAATTAGTCTCTCTAAGTAAAAATGTCAGGAGGCTATTGTTGGATTAATTTAGGTGGAGTTGATACAGTTTTAG
GGAAGAACCGTTCTACAGTATGAGAACAACTTTTAATATTATGTTAGTTATAATCTGGAGCATTTATCATACCTTATTA
TATATCGTATGTTTTGACTTTCTCCTCTATTGGGCTGTGGGCTCAATTAAGATAAGAATGTATCTCCCTTATCTTTGTA
TATCGGTGCTTAGTGCATTGCCTGGCACATAGCAGGCGCTCAACTCTGTTGAATTAAATGATCAATGAGTTAAACTAGA
TGGCTATATAGTTGATCTTCTATATAGTTGATCTTCTATATTCAAAATATAGTTTACATATATGTATGCAAGTGTATAT
GTGTGTTTATGAATAAGAAGAACTATATCTTCATACTGTTGAAAAGTTATATTGTTTCTCATACAGATTTTATTCCTTT
AGCTAAAGTTGTATCAATATTAAATTTATAACTAAAACGATATTACGTTGGCACATGAGGGTTTTAGTCAGCTCCAGCT
GCTACAACAAAATACTATAATCTGGATAACTTACACAACAACAGATTAATTTTCTCACAATTCTGGAGGCTGAAAGTTC
TGAAATTAGGGTGCCAGCATGTTTAGGTTCTATTGGGGGCCCTCTTCCTGGCTTGCAGTCAGTGCCTTCTGACATGGTG
GAGAAAGAGCAAGCTCTCTGGTGTCTTTTCTTATAAGAGCACCAATCCCATCATTGCAGGCCCCACCCTCATGATCTCA
TCACCTCCCAAAAGACCCATCTCCGAATACTATTACATAAAGGGTTAGGGCTTCCACAAGTGAATTTTGAAGGGGACAT
AATTCAGTGCATAGCAATGAGTATCTTGTAGGCTTATGACCATATAATTTGAAGCTATGATTTATGTAGAAGTTGGACA
AAAATGTTTCACATAATTAGTTATGTTCACATGATCTAATGCCTGAAACTCATTTTTAAATATGCCTGAAACTCATTTG
TTAAAATTATAGTGTTGGGAAAAGAAGCATTTAATATTTGTTAGCATTGAACTTAAAAAAAATTAAACACATTGACTTT
AGAGAAATGTATATGTTGAAGAGTAGGTGTGGATGAAATGAAAGAAGAGAGCTAACCCTTCTCAGTGCCAGACACAGTG
GTGTGGGCATTAATAATTCAACCCTCATAGCAGTCCTTAGGGTGGTCTTAACCATTTCATGGGGAAATTGAGACTCAGA
AGTTTACTAATTTGGCCAAAGTCACATAATTGTTTAGAGACTGATTCAAATCAATGTCTTCTTTATTCCAATCAATCTT
TTAGGGACCTTATCTGTTATTTATATGAAAAAAAACAACTAACTTTAATGTTTATGGAGTTTGTTTAATTAAATAAAGC
CCTTAGGATTTCAAATTGTTTCCTAAGTCCAAGAGATCCCAATGAGAAGGAACACAAAGTAATTTTTAATGATTTAAAG
TAAATGCTTTAGACTGAAATGGTAGCTTCTTTTTAAATAACATTTCAAATTAGGTTTACTATTAACATTTACAAAGAAC
CAGGGCTATAAATCAACTTTATATGCAGTGCATTCCATTGATCTTAATAGTTGTATTTGCAAGCTGAGTAGAAGAGATT
TACAGTTCTCTCTCAAGGGATAGATCTCCTTTTTTGGGCAATGAATATACTCCTTCAGAAAGTCCTCTTGCTCTTTTAC
GTACTCTTTTTTGCTTGGTATTTCAAAGGCTTTTTGTTATACTTTAAAAATATTCAACAAAAAGTCACTGAATATCTAC
AATGTGTTTATATCTTGGGTGTAATGCCTAGGTTAATAAGATGCATAGAAATATGGACCCAGTGCTACAGGCCCAGCAG
TGAGCAAAACTCAGGGAAACAAGTGACACTAAACAGTGTGGAGAATGCAAAGGCTAAAGGCTATATGAGTCCTGGCATG

Fig. 6.191

AGCACGGAGGTATGGGCTGAGCAGCGCTGCCTGAGGAGGTGATGTACAAGTGGGTATTTATCCCCCCCGGGCAAACCAG
AAGGAAAGGTAAAGCCAAGGAACAAAGTAGACAATGGAGATGGTGGGGAATGGAGGGAGAAGAGGAAAGAATCTTGGAG
AGATAGTCAGTCTTAAGGTCCAATTAAACTATTTCATGGCAGCCATTATTATCCTGAATTTTATGGATGAAGAAGTGAG
GTTCAAAAATATTACATAACTTGCCCTGTGTGACAAAATAAATGAAAAGCAGAGCCAGGTTCAATGAAAGTATGTTTGA
CTTAGGTTTTAAAATTCTAGTCATAAATGGCAATTTAATGTTGTTATATATTTGTATTGGGCTTCAGCAAAAACAAAAA
TAAAACCTCAAGTACACAAAAGCTCTAGTAATAGAGCCATGTTTGTGCAGTTATTTCCAGCAATCCTTGGAACCTCCAA
AATTCTCCTCAGCCTGACATTATATGCCCTATGTGTCATTTCATTATGTCACCACCTGGTGGTGCACTCACACCCACTT
TGGGAGAAAGGGGGTTAGAGAAGGGAGGACATCTGTGGACAAGCCAATAAAAGCATTTACTGGCATCGTGACTTCATAA
TTTACACTTTTATTTATGCATAATTAAGTATAAATAAACAAAAACATGTATTTTCTAACTGCTACCTGTTCTGTTTCCA
GTCTTGCTTGAAAATCATCTTTCTCAAAAAACTACCTATCATGTGCTATGCCCATTACCTGGGTGACAAAATGATCTGT
ACACCCCTACAAAATGCAACTTAGTCATGTAATAAAGCTGCTTATGTTCCCTCTAAACCTAAAATAAAGGTTGGAAAGG
AAAAAATAAATAAGATAAAAATTATCTTTCTCTATCAGAGTAATTTGACATCTTGAGGAAGTGATCCTGGGACTTCATA
TTCTTTAGGATTCAGGTGTCCAGATAATCCCAGAAGTAGCCAGCAATTTGGCCATTTGGGGTGTAGAAACCTTCATACC
TAGGTTATTGTAATACCTCAGGCTATTCTCTCCAGGTTTCCAGTGATTAATTAGCTGTGAACCTCAACCAACACCTGAC
TCTAGAAGAGTCTTCAAATAGGTCCTAGAAGGACCAAGTAAAATCACCATCCCTCAATCCCTCAATTTTTCCTTTTTCC
AAGTCAAGAATAAAAGAAGTCTGGGAAACATTGCCAGGTCAGCTTCTTTTTAAGCTCATGATTTTCTGCTACCTGAGGG
AAGGAGAGAAGGAAAAAGAAAAGAAAAGAAAACCTCAATGAATGCTCCATAACCTGGATTTTAATCTCTCTTTCCCTTT
TTGGGATAAAATTGTTTAATGTAATTAACTACAAGGAGAAAAGTTAACCAGTGGCTTCTGCTTTTGCTGAAAGCACTTT
TTCAAACCCAGCTGTCATGTCAAATGCATTCAATATTAGTTTGGACAACTCCTTACGTGGGTCTCAGAATGCATCTCTA
AAGAAAGTGTTTAAATATTTTTTAATGTGAAAACCCATATGGGTATTTTGGTGATAGGATTTCTTCTATGATTCAGGAA
TAAAGTATAATGCCCAAATAGGCCCTTGCCATTCCTATCAGGGACATTGCATCCATAATCCATTTTCCATATCCGTTTG
TATGTAAATGAAAAGTCTCACACATCACAACTTCTGTTTTTCTCATTGTAGGATCGCCTCATCTGTATTTATCCACATT
AGTAAAAATTATCCAAATCCCAGAAATATAACAATAGTCCGTATTTCTTGAGCATTTACTCTGTTCTAGGCTCTGTGTT
AAATGCTTTGCATGTAATGTCTCATTTAGTTTTACCACATTCTATGAGGTATTTACTCTCCTTTTCTTATATGGGTAAG
AAAACATGTTGAGTTATTCAGGTAATTTGCCTATATTCACATACTGGTCATGAGAAAACTAGAGGACCCAGGAGATTGA
AGCCCATATTTCATCATTTGACTGTCCTAGGAAACGCCTTGTATACTTGTTTTTTTAAGGTATTCTGTCACCCAAGAAC
ATTGAAGGTATATGCAGATTCTCTTTTCCTGTTCTATTCCACTAGACCTGAATATGAGGGATGAAAATTGCTTTGGTTT
TGATGTGACTTCAGTACCTTCTGTATTTGACACAGAGGTGAGTCACATCCTGATCAGTGTTGAAAGCATTTAGTAAGAT
TATTAGTTTATAAAGAAGGCTGAACCATGACTATATAATAATGAAGCAATTGTAAAAAAATCAGAAAGCATTCACATTC
ATTCCTTGAATTTCCAAAAGCATTCAACAACAGAAAAAGGGCAAACACGTTTATTCCATGTATATATACTGAATTCCTA
CTATGCACCTTCAACAATAAAGGCTTTTGGTATATAGGAGTATACTGAGCCCAGTTAGATTCAAGTGAAATTCCTAGTA
ATGTCCTGGTATACAAGGAGCTTAAATGTTCAACATATAACATTGTTTCTTATGATAGGTTTCACCTATAAGCCCTCTA
AACTGTTTGTAACTCTATAAGAAATAATTAATAAACCCCAACAAGGTCTATTTAATGTCTTGAGACAGATCATTCTACT
CACTTTAGATTTCTTATAGATAATAACCAGCACCTAAAACAATTTTTAAAGACATAGGAAATCCAGAATAAATATAACT
ATCATAGGAACATGGAAAGAATTAAAGAAATGGCAGAAGTTGGGAAAAAAACTACTGGAGGAAAAGGGTGAAAATGTGT
GACAATGAAGATTTGCAAAGGTTCTAGAATACTTTAAATTAAGTTAGAATAAACTTTTAGTTGCACTGTGCTTTGACTT
TTTATTCAGCCTAAATTGTCCTTTTAAATTCAGGTTGTTCATCTCCAAGGATGAATGTAATTTAACTGAATCTTGTATT
AGAGACTTGCACATTTCTCACTCATTAATATGATCAAAAGCATCTTATTTATGTCAAAAGACGAGAAACGAAGGCCATT
TTTGGCATTGTCCTAAAGTTGTGCTTTCTTGCCTTATTAGCATTTCATTTCAAGCAATAGATTGAACAGAAATGCTTGT
GATTGAATGAAGATTAATTATAGGGTATGGGAATATTCAAACCTTTTTAATTGTTCTGAGTAGTGTCTTCTGCTGTTTT
GTTATCCAAAAGGGAGTAAGTATTTGGGGAACAAAGATTGTGACACATCTGGTAATATTCAAGATGCACACCCCCCTCAC
TAGACTGTCAAAAGGCTGGGCTTGTCACAGATGTCGAGGCTGTGATGTATTGTCACTCTTGCTGCACCCATGGATGCGC
CTCTCCTGATATGCGACTCCCATTGGGAATGTGAAGACACAGAGGAGATTTTTAATCAAGAGCATAGGTAGGAGTCAAT
GATGCATAGCTGGCAGATGCAGATTTCAGCCTGGGAATATTTAGAATAATTTGGATTGCTTTATAGTTTATAGTAGCAT
CTTTTATGCAGGACTCTGACCTAATTATTTCAAAAATTATTGCTACTGATTATAATCTCATTGTTGCTTTCTTTTATCT
ATTCATTGTTTAAACAGCATTTTTAGGGGGCAGGGTAGGGAGAAGCAGTGTAGCTTGGTAATAAAGGGCATATGATCTG
GACCCAGCCTACCTTGGAAAATGATTAAGCCCCAATTTTCCTATATGTAAAATGGAGACAATACTAGCATCTACCTCAC
AATATTGTTGATTGAATGAAATGAGATAATATAAGTAAATTACTTCCAGTAGTCCCTAGCACATAAGCACTCATTAAAT
GTTAGCTTTTAAAATTGTATTCCAGATTAACATGCCTAAAAACTAGGGCTACGTACTGAGAATTCATAGAACCAATTTT
ACTTTGTGTCTGTGTTCTTATGCCTGCATCAGGCATTACGAAGAATACAGAGAGACAAACTTTCTATTCCTCAGGGTTG
ACAATAGAAGAGAAATAATAATACACAGGAAATAAGTAAAAGTATAATTCAAACTCCAAGTTTAATGATGTATAAAATG
AAGAGGTCAGTTTGGGCTATAACAATCAGATAAGATTCACTAGGTGCTAAACTCGATCTAAACTGAGAAAAATAGACAA
GACTTATAAATATTAGTTTAAAACATAAATCTGAAAGTGTTACTCCCCTATATTTTAGTAAGACTTCTCTGTGGCCCTT
GCTCCTATAACAGTTTCTTTAAGGTTAAAACTGCTGGGTTTCTGAGCTCTTCTCCATCCTACTAAATGAGAACCTCTAA
TACAAGAGGACAGTGCTTGGAAATCTACATTTGTATAGAACCCAAGTGATTCTTATCAAGCAAATAATGGAAATTCTAT
CTTAGAGAAGTCTAAACATACTAAGGCCCTTGTTTAGACTCTATGTAATTTCATTTTCAGCCACTCTGGGCCTTGACCC
CTGAGAACCAGCAAAAGAGAACTTTCTTCAGCACTTGGCTTAGCCCTCCCCTCTTTTGTGAAGGAGTTTCCCTTCACTG
GTCAGTGTTCCTTGTCTTTAATGATGGTCTTGAACACCACTATGTTGTTGTACTTAAAACACAGAGTTGTAACTGTTTA
CAGGTTTATATCCATTAAACCACTTGATCTTGTGTTTCATGCTCTCTTATTCTCACCTTAGCATTTAGTTACCACTCAC
TAAATCAGTTGATCTTGAAACTTTAGAAATCTTACCCTTACCTGAGGGGTCCTTGTTTACAAAGCAGATTTCTAGATGC

Fig. 6.192

TCTTGCTCAGGTACTCTTATTCTGTAGTTGAAATGGGCATTTTAGGGCCAGACACTTTGGCTCATACCTATAATACCAA
CACTTTGGGAAGCTAAGGCAGGAAGATCACTTGAGTCCAGGAGTTCAAGACAGGCCTGGGCAGCATAGCAAGACCCTCT
CTCTACATAATTAGCCTGGCATGATAGCACATACCTGGCTACTCAGGAGACTGAGGTGGGAGGATTGCTTGAACCCAGC
ATTTTAAGGCTGCAGCGGGCCACAATCATGCCACTGCACTCCAGCCTGGGCAACAGAGCAAGATCCCATCTCTTAAAAA
AAGTGAGCATTTTAACAAGTGTGTAAATAGTCTACCATTCTCTTAAAACACACACAAACATACACACCTTGAAAATGCA
AATGAATGAATGTGTGACAGAGTGGAAGAAACAGCTTCAGAAGGGAGAATAAACATAGCATTTACAGAAGATAGTGAGA
ATACCACTGATTTGGTATGTTGGATGCTGGTTGGGAGAATTTTATGGGAAAAATACCAGTTGAGTGAAATTATGGATGT
TCTTGAGAAATAGCAGAGTTTGAATTGAATGTGGCTTTTTGCATAAAGTGGTAATTTTGGAATTTTGGAATAGGAGAAT
GAATAAAGATGGCATCCCCAATAGTTGTCATGGCTAGTCTTAGGAAGGGTTGGATCAGATGATCTCTAAAATATCTCTT
AACACTGAAATGTATAGTGTTATGCTATAAAATATGTAGATATTGAGTTGTATTAATAAAGCCTTAGCTTGTATTCATG
GGATAAAACTTCTACTTAAATAATATTGTAATTTCATTCATTAATGCATGTGTATAAAAGTGGATCAGTATTGTGGAAG
GTTTGCTTAAGGTGAGATACATGCAATGGTAGCCTGGAGCCAGGTAGTAGTACCAGCTCAGGAGTACTAACTGTTACGT
ATTCAATGATTTTGAGACCTGGTTGGAAAGCACAGGCATTATTAAATTATATAAACCCGTAATTAAATAAATTATATGA
AATGCAAAGGTAATCAATACTCAAAACTCATTAGTTCCCAAGTACTTCATTATATTTTACTATTATCCATGCTCTTGAG
GTTATGTAGTCCATCGTATCTGTGTCGTGGAAATACTATATAATGAGGTGCAGCTACAAATCTCTTCCCAACTCCACAT
TCAGGGCCATCACATTGGTAGCTTGAAATAAGACATGCTGATAGTAGTTACACCATGGAAATGGACATACTGCACAAAT
CAGGCCTTTTTTTTTCTCCTGGAGAGCCAACTGATAAATATTTACCAGCATACCAATGGCTCATGTTTAGAATAGTCCC
ATTGTTTTGGGGTAGAAATTCATTTTGGTACATGGCCTGACTCAAAAGTTCACCCCTTTAGTGTTACCTCCTGTTCAGC
ATTGAAGCCACTTATGTCTCCTTATATGAAACCAGAAACAAGAGGCTTTTTTTTTTTTTAATTCTAAGAGTGGCTGGCT
TTAGTTGTAACAGAAGAGAGCAGGTACCTTTATTGTACTTCAATTTAAACTCCTTTCAAAAGGATCTGAGAACTTTTTC
AAAAAAAATTTATTCCCCCAAATCTGATAAATATGCCTCTATTTTACAATCTTTTACAACTTTTCAAATTACTACAATC
TGAAAGACATTTTCAATCTTTCTTGAAAGACAGGGAGAATATTGCCATGGATGAAGAAAACAATGACTTGTTTCTTTCA
TTGTATAAAATCATTCTTCATCACTGTGAAAATAAGAAAATGAATTTTTTTTAGTTGAGCACAATCTCGAGATCTTTCT
AACAGCCTCTGTTCTTACAGTATGGATGTTACTCTTGGTTTATAGCTCTGCAAAGGAGTCAAAGAATCTTCCTTTTATG
AGGGCCCTGAAGAAAGAAAATTGTGCTGATAAAATTACTTTATGTGCGTTTGAATGATGATATGGCCAAGCATTCTTCA
GAAACTTCTGAATTTTTCATGTATGCCTTCAAGAGTTGTAATCCTTACTTAAGCAAATGTCTGTTTAGGAGAGATTCCA
GAGATTTTCCTATTTAGAGTGTTTTAAAAATTAAGGAAGGTGTTCACCAGCTTACTAGAGGTTCCTTGTGAAAAGAGAA
ATGAGTTTTCTTCAACAGTCTTATGTCTTTGGTTCAAGCTGACATAATTAAGGTGTAAACATATCAGTATAGTTTGTTT
TGATTAAACTTTAGATGGACATAGAATAGGTAATCAAATTCATTGGATCGAAATAAGTATTCTTACTCTGAAATGAAAC
AAAATGGAATCTTCAGAAACATGGAAACAATGACCCAAACATCAGAGAGGCATTGAAGATAAATGGGAATATCACTGGG
AATAGTGTAATTGGAGCAGTGTTTTCCAAGCCCAATCCTCAGACCTCTCGAAAATGGAGATTGTAACACTAGATTGTGG
GCAGTCTATACCAAACCAACAGTACTGAATCAGAGTGGGTTATGGAATGGCTAGAGCATTTGCAATTTTACAGCATAT
TCAGAAGATTTTTATGTACACTGAAGTTGAGACGTGCTGATTTAGCAAAGGTAACTGACAATTTGCCTCAATTCCCTCA
TCTGCAAAATGGGGATTATAAAAGTAGGGTTGTTGGAGGACTGAATGAGTACATATATGTATAGTGTTTAGGACAATGT
CTGCTGTTTTACAGTAAGTGCTCTATTGTTGGCTCTTGCCACTATTATTGTTTTGTCAAGGGCTTGTCTGTGCTAGCTG
GAATGGAAACTTAAATGTTTCTAATTATTGCAACTGTCAGATTTCTTAAATATCGTAATGAAGCCAGCACAGTGAAGAG
CTGTCCTCAGTTTAATGTAACATTGGATCTATCCTAATAATTTTTCTTAGTTTCCTATTGCATTTGTAACTATTTTATT
TAAATGTTTTATTTTTCCACAGGGTTACATTTATTTTATTACTTCAGAAATATTAGATGTCATTCTGAAATTGTGGCTG
TGCCTTTATCTTGCATGTGGAATTCAATTTTTTATATTCTTTACAAACAGTATTTATAAGAAATAAAGATAAGGTTACA
GTGAGTTGTAGTATGAGATGGTAATTTACATGGGGTGCTCCATGTGCTTAGCTTTTCTCTGAAGTTATGCATCCCCACA
GCAAGGGAAATATTTGCATTTCTGAGAGTGAGAATTTATGTTCATCCTCTACTAGGAATGGTGGCAGCTTTTCCAGGTC
AAGGCCCTGCAGATGCCTGATGGTCATGGTAAATGAAGGCTGGATGCAGGGAAGGCAGCAAAATGAGAAAATCTCCTGG
GATCAATTAATGGGAGTCATCTGAGAGAGAATAAAGGCAGGAGAACATTTTCTTCTAGTCAGGAATTCGCATCAGTTTT
GCCTGGTAATGGGTTTCATGAAAGCCAAGATGAAAGGGTTTTATCCCTAAGGAAAAAAGGGCTCTCCTCACATCCTCTT
TCTGTGCTCTTTTATCAATGACTAATAATAACATGCTTGCATCCATGACAATCTTTCAGAAAACTGATGCAAAAACAAG
TCCAAAATTAGAGTGTACAGCTGTCGTGATTTCCTGGAGTTTCTGGTGTGTGCTTAGTAGGCACACAGTTTGAGTTACA
TGGCTTCATTATATGATTACACACTACTTTGTTGCCTCATTGGTGGTTAAGGTGATTTTAAACTTTTCAGTACCCAAAA
GCAGTGTCCTGGAACATACCAATGAAGACGGAGAATTGTTTCAGTCCCAGAGATATCCCAAGCAAATACAGCAGTGAAC
TCAATGGATATTTGTGAAATGAATAAATAAATGAATGAATGAGTACTACTGTGAATATTCTTGTCATGTTTGCTTGTTC
TCATTTGGAGAGTTTCTTTGAGGTCCGTGACCAGAGGTTGAATTGCTGGATCTTAAAGTAAGAGGATTACCAACTTCCC
TATACGATGCTCAATTCCTCTCCACAATGGCTATACTAGTTTACTGTCTGGCAATCGGTGTATGAGGGTTACCTGTTTA
TCACATTGTTGTAACATTTGATTTTGTCAGATGTCAGGTTCTAACTGAGGTCCAAGGGGAGTTGGTGGGCAAGTGGCGG
GTAGCTGGAAAAACACGTGAGGAACTGTAGACAGTTTCAACATGGATTTACTCTCTCTCTGGCCATGAGCCATGAGCGC
AAGATGTATGTACAGCGTCAGCAGCGTAGTTGTACCTTTTACAGACAATAGTGGCTCCAAGCCAAGCACAAGCTTACAT
GGGTGATCACCTAATGTGCCTCACGTGGCGTGGTTACATAATGTGCAGAGTTGTGAGCCTGTGCTCCAAACTCACTGAG
TCATGCTGGACCGGATGTCTGCTTCGGCCTATTTTTGAGAGCAGCACATCCATTTTCCTTACACTCCACCCTCAATGCC
AAAGGAGACACAGGCCTTGGACACACAGGTCTAAGACACAGGCCTTATACGTACACTCTGGGGACAAAGGCCCTGGACA
CACAGGTCTGACACATAGGCCTTAAATTCTACTCCCTAGGCTGAAGGAGTCTTTTAAATGGAGAAACATGCCCACAGGG
TGGAACCCCAGACCCAGAGGCCACAGCAGTAATACAAGGAGCAACAACTCCAGGTTATGACGGGCAAACACCCCATGAT
GATGTTACCCGAATTTACTTTATGCATTAAGCCAGGTTTTTATTTCCCTACCTTTAGGGGCATTGGGGCATGCAACAAC

Fig. 6.193

AGGTTACCATCCGTTTCCATCCTGGTCATAGGAGGTCATCCTTCCTCCCATAGGTCTTGCCACATGGCCTAGCCCCACA
TGGGCCAGTGGCCAACTAGCCACTTCTGTATTTTCCAGGTGCCTAACCACAAGGTTAAGCCT_GATAGACCACACAGCT
ATTGGTGCAGATTATCATATGTGTCACCTCTTTGGTGATCACCATTCATATTGCTCTGACTTCAGCCCATTGACTACTT
TGTCCATACCCGGTATGAAACCATATGGAGTCAGTACTAGGCTGGACTGTGAGCAGTCCAGGCAGTAGCAGCACCCCAG
CTAGACCCATCTGTGTACCGTGCCCCATCGGGCATAGGGGGGGATGCCCTTCCTTAAATGGTGAAGGCTCAGCATGTAG
GGGTGCTTCAGGCCCCATGTCCTTAGGCCCCATGGCCTTATCTTGCATTAGGACTGCTGGTCTCAAGACCTCTTGCAAC
TCTGCTGCTAAGGGACTTGTACTCAGCGTACTCTGTTGCTTCAAGTAGGTGCCCCACTTTGCTAAAGTGGATGTCTGCA
CTGTCCCAGTCCGGGGGGTTGTTATCAATGAACACATCCATCCTGCTATCAGGTAACTCGTCTACACGACAACTGTAGC
CTGTCCTGCCATGCTCTCATGAGCCCGAAGGGCAGCATATGCAGTTACTAACTGCTTCTCTATCAGTGAATACTGGAGC
TCAGCTTCTTTCCATAGTTGGGACCAAAAGCCTACTGGTGTTCTCAAGCACTCCATGCTCTGCCACAGGCCCCAGCCAA
AACCATCTGTGGTCACATGCACATCCAACTCAAATGAGCACCCTTGGTCAACTACCCATAGGGCTTGTGCCTGCTGAAT
AGCCTATTTAGCTGCCAGGAAGTCAGTCTCAGCCACACTATCTTAATTCTAGGCAAGAGGAGCATTGCCGCTTCTAAAT
CTGCAAGAGAATCAGAGGTTAACATAATATTATCAATAAGACCATGACATATGATGGGGCTATGCATATATCCCTGCAG
CAACACTATGAAAGTCCACTGTCACCTTCCCGTGAAGGCGAACTGTTCCTGGCTCTCTAGAGCAATGTTAATTGAAAAT
GCATTAATCAAGTCCACCACATAGTGGCACTGTCCAAATTCCATCATCAAGCGGTCCATCAAATCTGTAATAGATGGGA
TGGCTGTCAGGCCATGTAAAACATCCACCCCCAGAATATATCAGCGCTGGTGTTTACCAGTGCCAGCACTTGCTGTATG
TTGGTGGAGGACCAGTGGATTGCTAATTTCACATGTGGCCTCTATTTGTCTGGTGTCCCCCCAGGCCAGGCACCTCAGC
CAGTTCCCTAATCAAACAGAAAAAGCTCAACATTTCCACCTGGCTGCAGCAAGTAGTCTTTGAGTTGAAGCACCTGAGT
GGGACCAGGTCATACAGCAATGTCCTCCTTCCCCTTCTGCATTTCCTGGAATTGCTGCTCTTGAGACAGTTATCTCCAC
AAAGTTAARAGTACTTCATTGGGCTGCTTATCGATTTTCTCTCAGTCAACCCTGGCCAAAGTCAAATCTATCCACATCT
GTGAGTGGGTCACTTGTTGGGGCCCCCTTTTCTTCCATGATGGGGAGGCTCTGCAGGTGGGGCATCTTCCCCTTTTTTA
CAGTGCAGACCCAGACCAAGCAGGGGTCTCTGGCTGAGATGACGGACCCAGGCCTGCATTCACAACAGCCTCTAACTCC
CTTTCCAACCCTATGCCAGGCCTTCAGGCACCCCACCTGCACCTGGAGATCCCCATTCATGGCAGCCTCTAACTCTTTT
TCTAAGCTGTGTAGCTGGGCCTCCAGGCACCCTGCCTGTGCCCAAAAGGCCCTTTCCTGCACTGCATCCCTCAGGGATT
GGGAGTGTACTTCTTGTAGCACAGAAAAAATGCCCATCCAACTCTGCTGTCAAAGGCTCATTCCTTCTCGGTGCTCTGC
ACTTCCAGCTGCTTCAGTGCTTTCTCCGTGCTCGTGGGGTACCCATCTACTGCTGGCCAGGTTTCCAACAGAGTTCACC
CTTGCAGCACAGCTGTGACCAGGTACCACAACCCATGTCGTGGCCACATTGCCAACCCAGAATCAGCAGGGACCAAAGG
CTCGCCCACCTTGGGATCCTGTTCGTGATGCCAATTGTCAGGTTCTAACTGAGGTCTGAGGGGAGTCAGTGGGTGAGTG
GTGGGTAGCTGGAAAAACACTAGAGGAATCATGCACAGTTTCAACGTGCCTTTACTGTCTGAGTGTGAGCCGTAGGTGC
AAACCATAGGTACAGTGTCAGTCCGGTAGTTATACCTTTTACAGACAATAGTGGCTCTGAGCCAGTTACAAGCTCATGT
GGGTGATCACCTAATGCGCCTTACGTGGTGTAGTTACATAATGTGCAGAATTGTGCACCTGCACTCCAAACTTGCTGAG
TCATGCTGGACCTGATGTCTGCCTCAGCCTATTGACTGCAGCGCATACATTTTCCTTAAATCAGATTTTTAAAATTTTT
GCCTGTCAGATGAGGTATGTCTGTCACTATTGTTTTAATTATTTTTTCCTAATTGCTAGCAAAGTTGCCTATCTTCTCA
AATGTTCACTTATTGTTTTTTTTCCTGTGAGTTCTTGCATCCAGTTTGAACAGTACTATTTAACTTTGTTTTAATGCTG
TCAAATTCCTAAAATAGTTGCTTATGTCACAGAAGTTCTAACCTCAGAATGATGATATCCATGCCAAAGCAGTTGAAAT
TTAAATTCTTAGATAAGTAACTTTAAATATTCCAGTGTTATAGTAAAACATTTATACTGGACTATTCACTCAAAAATTC
TTTAAACAGTTGTCAACCTTATTTATTTCATTATAATAATTGTAACTTTAAATGTGAGATATGATAACCACATCTCTGA
AATGTGACAACCTTGTCCACCAATGTTATTATGCCTGAAACATAAATCTTGGGCCCCTGCTCAGAACCTTTGCCTTCTA
GTTTCAGTAATTATGAAATTAATTTTGTGTTTGGTGTTTTGCAAATTAAACTTACCCTATTAACCCTATAGCGTATATA
CATTATAGATMTATTATTATAATTATTATATTTTTAAAAATAGCTTTATGCTCATTGGGCAGAATCTGTATCAGCACAT
TTTTTGGCAGAATAGATTCAGTAGACTAATAACTCTGTTATAAATCCCTGGTAGCAATGTTGGGTAAATTCAGTGGACT
AATAAATCTGTTATAAATCCCTGGTAACAATGGTGGGGTTTTAATGAGTAACATAAAGAACTTAGAATAAAACAACTTA
AATATATATATATATATATATATATATATATGAATAATATTAACCTTTATTCTTATATTTGTATAATGTAGTTATCTGATT
TGCAGAGGGAGAGAAAGAGACAGACAAATGGATAGACAGACAGAACGAGATCATTTAGACCATAAGGTTAGAAAAATAT
TATGAGACTATGGAAAGGTAATGAATATGGTAGAGAGAGATGGAGCTGAAGATTATAATTCTTTACTTATGGACTGCTC
CAGGATAACTTTGTTTGATGTTATTTTAGCCTTCTGATATCAGTTTATATACTCTAAAACGAGTAGAAAAGAAGCATCA
GTTTGTATAAATATTCTATTTAAATATTGTCAAAGCAGGTCCATGCATCAGAAGTCAAATTAAAACTCACTGGGGAAAA
CTTTGAAAAGGCCTGAAGGAAATGTACTTGATTTTTATAATGTAATTGGCAAAGGAAATTGTAGTCAAATATGAGAGCT
AATGAAAGAGTGAATGGATAAGTAAAATCCACAAATAAGCACAAATGTCATTGGGCTGTTTCCCTTTCCTTACCAAAGA
AAATTTCATGAGAGTTGCTAATGAATAAGATCTGAACATTATATAACCTTTATAAGCATTTTCCTCAACCATTTTTTTC
TGGTTGAGATGTCAACAAGAAGTAATATATCATAATATACAAAAGAAGATGCATAGTGTATTAATAATATGCTACCAAT
TAAAAATCGCTGGAATAATTTGGCATTGGAAATGATGAAGGCATAAAGAGCAGATCTTGTATTAGACAAAAACTAGGAA
GTTATAGTTAGGTTGTAGTAAATGATGAACAATCCATTTTGATTGTGATTCCCAACTAGCTTTTAGGCAGAGCCTCAAC
CACAGAAACTCAATCCTAGTGGATAAAAAATATGCAGACAATTTGAAGGGAGTGAAGAGAGCAGAAGAAAGTATGATGA
AAGAATTGAAAGATTATGCAACAGAGGAGTATTTACAGCCTGGCTAGATAAATGAATGGATATATTATTTTTTTTAATT
TTTTTAGCTAATTTACATTGTTAATTTTTATTTAACTATTATTTTTAAAAGAAGATAAATACTGCAGTGGAAAGAGACT
TAAGGGATTATACTAAGGGCAATTATGAGAACTCTTGGGACAAAATAATGGTCTTATATCAACAAAAATTCCCTGGAAG
TGTGATATGTCAGCTTGCAGAAAATTTTCCCAATGTAGTGATAAGAATTCTCTGAAGACATAGGCAGATTGAAAAGACA
TGAATAAGAAACAATGTGAGATACATTTCCATACTTACTGCAGAGGTAAAGCAGAATGGAATTTGTATCTTTTCCTCTG
CAGGTCCTATTAGAGAAGACAATAGAGAACCCTCTAAGAGGTGATTGTCAAATTGGTTAATATGCTGTGGTTTGGAGTG

Fig. 6.194

CCTGCATTGTGAACAAGGGCACATTCATTCAACTTTCCACATCTTCCTTTCCCTGTAAAATGTACATGGAGTTATGGTA
CCTTATTAGGCTATTGTTAGTATCACATATAAAACCATGTAAAATTCCTACCTTATGCCTGGTTCAGTCAGTGCTCCTC
AGGTGGTAGCTATTGGTTAACCCTATTCTTTATAACATAATTGAAATTAGGTTATATGACTTTTAAATATCCAAACAGT
CAGAATAGAAATATTGATGAGAAATTTTGCTTCATCTCAAAAACAGTGTTAGAACTACACCAATGGAGTATTTTTCTCC
TAAAAGGTTAATCAGGATATGACATTTATAGGATTTACAATCACAATCCTGATAACTGTGAAATATAATATCAGACTGT
TTCTTACTATTTTATTTTTAACATTGACATTAAGTTAAATAATATATTTTGTTACTGTAGCCTAGGATTTTATTTTCCC
TGTTATGAGAACAAGGATAATTATTTTACAAATGAAATTTTAAGGGATTAGAGTGCCATAGACATGCTCATTGCATTAT
TAATGTGCAGAATACTGGAGTTCTGCCATCTTCATGAATCCCCACATTACATTTTGGATAAAGAATAAGTTCTGTATAT
AAATGTAGGCTTCAGAAGCTTTTGTTGATTCTTTCACCATATTTTATACAAAGGCTTTCTTGCTTTCCTGCCTCTCATG
CTAAGTACAGGCCCTTCCTGTACTTTCGGCTAAACGAGATGGCCTTTCATGTATAAAACTCAGCTGAAAAAATTGACTTC
TTCATAAAACCATTCCTGTTTCATCCCTGACTCAAGGTCCTGACTTGAATTCTTCCGACTTCCCTGGGCACTGAGCCAG
CATAGTTCTGGTTCGTTGTWTAATTGTTTATATCCTTGTAGCATATTCAGATGCACATAGTCACCATGTCTCACCCAGA
ATCAGAATCTCTCAAGGAAAGAAAGCATGTCCTCTCTTTCCCTAATAATCCCCAAAGCTCTCAATACCATGCTGTGCCC
ACAGAAGGGAATCAGTTAAATCTGCTGCAATTGATTGGAAACTTCTTTTCCCCCAGATTTTCCTTAGGTGGTCTCCTGC
AGAGTTCTGTCTAAAGTAATGGAGACTTGGGATTTGTATTCTCATTATGCTAATGGTTATTACTTCCTTTATTTTTGAA
AACTGGTTGTAGGATCTAAGCTAACCATGCTATTTTCTGCATACCACCCAGCGATTCTCATTTAGCAACTGCCTTCAAA
TCGTCTACTCCCTTTGGTCTCCTCCTCCCCTCAGTAGGAGAAGGATGAGAGGAAGTTGGAATATTTACACTGAGATGAG
ATCCTTGAGCACTTGAGCCCTGAGGCTGCCTCTGGACTAACGTTTCTGTTCAGCTGTCCCCAGGTTTTTCAACAAGAGC
TGTCAGAAACAAGTTTGTGACTAAAGAGCAGCTTCATCTGTAACTTCTGTTTCTTGCTACTCCCTGCTGTGTTTCTGGC
TATCTGGAAGCTTCTCAGCAGGGTAGCAAGTTGTTGGCGCCACTAACACCTTTCCTCTTTCAAATTCATATTCTTCCTT
GGGAGGTGAGTTTGCATTTCAGAAAATTCTATTTAGTGAAACCACCCAGGAATCAGTGTCAGTTGGCTTTCAGCTGTG
AAATAACTGCAGAGACTTTGTTACAGCTAAGGGGGTGCGATTCTTTTGGAGAGTTTAGATTTCTGTTTATAGAGAAGA
GTTCTTAGGAATTTTATGCTTAGCTGAAAGTATTAAACACTTTTCCTTATTTCCTCAACATGAATTCTTTTTCCCGGGG
CTGCAGGGGAAAGGGCTCTGATCCTGGTTCAGTCTCTAGCTTGATCATTTTAGTCGAGTTCCTTTACTTCCATGCAACT
CTGTTTCCTCAAGTATAAAACTATTAGTTGAGTGGGTAGAAGAAGTAGATGATCTTTAAAGCACTTTTTAAGTCTAAAA
TGTTATGATTCTGCTATCAAATTCACAGCTTCTCAACATCAGATAAGGGTTGGCATGAGTGTTGCTGAAAATATATTTG
GGTTGGAGGAAGGGATATCCTCGATTAAAAAAAAAAAAAAAGCCAGATGAGAAATTAAGACTTTTCAGCCAATGCTATT
GACATAAACTCAGGGTGACTTTCACGTCCTAAGTAGAAGTGGAACGTTCATTAATTAAAGCTTAGGTAATACCTCTTTA
TCAAAATTAATAATTTATGTTCAAATTAATCATCATGAATTGACATAGCTAATTTGACCCTTCATGGTTATCAGAGTCT
TTTTGGTGAATATCATAGTCTACATTAATTGAAAGAGGATAAGGTACATAGGTGTCCTCTCCCACAACTAAGCCATCAT
GTCTAATGTAGTAATGAAAGCAGATTTTGGACTGAATTTTGTTGACTGGCAAGCTTTTGTTACCAAGGAGCCACAACTA
TCATAAAGCCTATTCTCATAAGCTCCATAGACTCCCAGCTTTCTGTCCCTTAGACATTGTGATAAGCGTCTTACATGGA
AGATCATTTTTTATTATGTCTGTTTGATTCTTCTCTCTTTCTTCCTTATTAGTCTAGCTAGTAGTCTATCTATTAATTT
TTTCAAAAAATCAGCTCCTGTATTCCTTGATTTTTCAAAGGGCTTTTCATGTCTATCTCCTTCAGTTCTGTTCTGGATC
TTGTCTTCTACTAGCTGTGGGGTTTGTTTGAGAGGACATGAACAGACACTTCTCAAAAGAAGACATTCATGCAGCCAAC
AAACATGAAAAAAAAGCTCAACATCACTGATCATTTGAGAAATGCAAATCAAAACCACAATGAGATACCATCTCACACC
AGTCAGAATGGCCATTATTAAATAGTCAAGAAACAACAGATGCTGGTGAGGTTGTGGAGAAGTAGGAACGCTTTTACAC
TGCTGGTGGGAATGTAAATTAGTTCAACCATTATGGAAGACTGTATGGCGATTCCTCAAAGATCTAGAACCAGAAATAG
GATTTGACCCAACAATCACATTACTGAGTATATACTCAAAGGAATATAAATCATTCTGTTACAAAGATACATACACAGG
TATGTTCATTACAGCACTATTCACAATAGCAAGGCATGGAATCAACCCAAATGCCCATCAATGATAGACTGGTTGAAGA
AAATGTGGTACATACACACCATGGGATACCATGCAGCCATAAAAAGGAATGAGATAATGTCCTTTGCAGGGACGTGGAT
GAATGTTCTCACTTATAAATGGGAGCTGAACAATGAGATCACATGGACACAGGGAGGGGAACAACACACACTGGGGCCT
GTCAGGGAGTGGGGTTTAGTGAGGGAAAGTATTAGGAAAAGTAGCTAATGCATGCTGGTCTTAATACCTAGGTGATGGG
TTGATAGGTTCAGCAACCACTGTGGCACACATCTACCTATGTAACAAACCTGTGCATCCCGTGCATGTACCCCAGAACC
AAAAACAAAAAAAATAAAAACCTAAAAAAAATCTTATTTCAAAAACAGGCTATGGGCTAGATGTGGCCTGAGGGCCATA
GTTTGTTAAGGCCTGGGACTAGACCAACATATGCATGTGACCATCTTGTGGATGAGTTTCCACAAGACTGAGAGCTCCA
TAAAGGCAGAGACTGTATTTTCTCATTTTTTATTCCCCTCAGTGCCAAGAAAAACAGTAATTCAATAAATGTTTGTTGC
ATTAAAGAATTTATTCACGAAGAGTTATAAAAATCAATCCACTGTTTTTCCATTTGCTATCTCTGAACATGTACTATGT
CATTTTTACTTGAAGATATTTATATTGAAATCTCTGGTTAGTGATGTCTCACTTCTGTGTACAGCTAAGAAGACGTACA
GTTTTTAAAATAATGTTACTAACTGTAACAAAAACTATTTTATCAAGAAATATAAAAGAAATTCTTTAACAAGGTTGAG
AGGTTACTTCATGCATTAAGTTTCTGCTATCTTGCTGATGTTCTGCTATAAAACCTTACAGACACTATGTCTGTATTAC
TGGTTTCATTTGAAATTTTGCCTTATGATTAATCTAATTTGGTTTCATTGTCCATAATAAAAAGCAATTGAGCATCACT
GATGTGSATACCATTTTCTTTAGGTTTTAAGAAAACCACTCTAATATTTTTTCAGGGCCATTATTTTATCAAATATGTA
TATATGTGTGCATAAGGAGARGGAGCTCGGAAAAGGATTTATATTTCCTTATAGTCAATTTTATGTTCTTTCTACCCTA
CCACTAGCTCCACCATATTGAAAATATCTCTATAAATATGGGTTATGTCCTATAAGCAAAGGATACATTCTAGAATTCA
TTTCTCTCTAAACCATGAAGCATCATCCTTAAGCAAGATGCTAAACCTGAAACCTCTGTAGAGCACATTTGGGTAGACT
TATGTTCTCATTCTTGCCTAGAAGAGAGATATTTCTAGTTTTCTTATTTGCTAACCTTATAATTTGAGCACAGAATGTC
AGATTTGTTTCAGCCCTTCGATTTAATCACATCATGTCTGATATCCTAGCATTTAATTACCCAAATTCCCAGTGTTGTT
CAAGAAGGTAGGTCTGTGGTGGGTTAGCCTTAAGCTAGTGGCTGAAAAGGTCTTGATTTGCCCCCACATCTAACCTAGT
CACTTCCTGAGCTGAAACTCCCATATCACCTGGGGACAAGCGACCCTGAAATCCTCACTGGCCACAGCTTCTTCTGAGG

Fig. 6.195

GAAGCTGCAGGAAAAAGAACAAAAATGAGCTTTTGTGAAAGGATTAACTTGGGTGAAGAACATCCTCCATAACCAAATA
AATGGAACCTAGTAACCCACATGGCCAATCCCCAGGGCACTAGTGTCTTTGGGGATATCAGGGTGTGTATAGAATTTCG
TTTTTGTCATTCTTGAAAACATAAAAWAATCTCTGAAAGAGTACTAGTGGTCAAGGTACTAGTCTAGAGATGGACCAAA
CAATCATATTAAACCTAATTTAATCTCCAGAATTTATATTTGAGATTGGTAGCACTACTATCTTCATTTTGTACTTTC
CCCAACTTCCTGCAGCTAGGATTCAAATACAGACCATCTAACTCCAGAGCACTGCCCTTTAACATTGTGCTATAATCCA
CCACTTTGCATAGTTGATCCTACAAGAGGATAAGTAGAGATCAAAGTAAGAAGTGATCAATGGATTACTATGTCAAGCA
TGATTCCCTCAAACTATTGGGAAGAATAAATACCATAACATGTATAGGGTGCTGTGTACAATTCCTGGCACAAAGTTAA
GTACATGATAAAATGGAACTATTAATATTAGTAACCCAGATAGGTTCTGGGCACATTAGCAGGAAAGGTCTTCTTAATT
TAAGTAAGGTGCTAAAAGCATCTAATTTTATTAGGATTGTTATGAAACAAAAACTAAATGTGCAAGAAAATATATTTAC
CGTAGCCTGGGGAAAATTGTCATGGTTTCTCTTTTCAAAGAATTCAATTTGGTAAGAAACAGCCTTCAATGGTCCATGA
AAAGTGAGAAGTGTAGGGAATAAGAGGCTCTTTCCTATGTTTGCATTTCAGGCTTGCCTTCTTACTTTTAAATTTATCT
TTACAATTGCCTTCCTGCTGGGTTTGTGTCTTCCTCAGTTTAGGGAAGGTGACAAGAAAAGTCCTGTTTGTGTGTAATT
GACATGAAAAATGGTAGGCTTTTAACTCAAGGAGGCTCCAGACAACAGTTTGGTTATTAAGGAAGGGGAGGACCTAGGG
GAACAATTGTTTCTGGCCTCTCTTCTTCTCAGGCCTGGAACAATCTTTCATTTACTATATTCTTGCCACAAGAGCACAG
TCAATATTAAATTCCAAAAAAAGAAAAATCCCTCACAGAAACAGCTGTGTTCAATATACAGCCAGTTTACTCTGGCGAA
TTGCTAGACATGGAACAGTTTTCATTTCTTTTTGTGTTTATCCCTGATAGTTGTCTTGTAAAATCTGCCTTTTGTAAAT
AAGGGAAGGCTGGTTTTAAACAGCTTTGACTAATATTGGTAGTTGGAGTATTCAGTATTACAGAGTTTTAGAGAACTAA
AATAAACCTGATGGAAACACACACATATTTCAAAGGAAACATTTTAAGGTGTTCTGGTTCCATTTTTTCCATTTTGTAT
GTAAGTTGGATTATGATACTTTTATGTCTACATTGTCTCTTAGTCAAAAATGTGAGAGACGCCATTCAAGTCTAGACTT
GGACCCTACTGAATGCCTTGTTCATGGACACCACACAATCTCGATGTAAATGTTTATTGCTGATCTGTACAAAAAGGGG
AAAAGTAGTTTTTTGAACAACAGAAAATACCAGTTAATCTCACTGGATTCAGGAATTATAGCAAAGCAATCCAATAAGT
GGATTCTCTGAGAGTAGGAACTCAAGTGTGTTATCTCAGTTTTTATCCAGTTTCCAGCACAATGCTGGCACCATTTAAA
TTCTCAGTCAATGCTGGAGAATTGAAAAAGAATCCTCAAAATTTGGATGACAAAATGACAAAGGTGTCCCCTGATACAG
AAATCTGTCCATGGCAGAAAGATTAGTGATTTGAGATATGGTGTCATCATTGTAGATGATGGTGTCCCATTAAGCATGT
TTTCACTAATTACAATAAATGTTGAAAGAAGGAGTTTCACCTAGTATCCTTACTAATATCAGGGAATGGCCTGGGCTTT
GGGGAGATGAGAGTCCTCTGCTTTCAGTTTAATAAAGTAGGATATTTGTGTTTTTGTTTATATTGTTAAATACGACGGG
TTAGCTTGTCACCTACATAATATTGTGTGGCATAAATAAAGGTGAATTCCCAAATATGTGCTCCATAGTGTTGACAATG
AGTAAATGTTCATTCTAATAATTGTAAGGGTTACCTCCCTCGCACTCCTTGAAAATATCTTTTTATTCAAATTTTTCGA
GCTGGAGGTCATGTGTTACATTTCCTGTTGTGTAACATGGCCTCCCTCTCTTTCTCTGTCTCACTTTCTCACTTTCTCC
CTCTTTCTTTTACTCTCTCTGCCTCTACCTCTGACTCCTTCTCCTTCTTCCCAGCTTTGCATCAGAGCCATGTAACTGA
CATTTTCTTGGTTCCCTCAGGACCTGTCATAATAGCAGGCAAATATTAGATGATGATTCAATGTTTAATGAATTTTTCT
TGAATGTATGTATGTTGCTTCAAGTCATTCATGCACACATTGAAGAGGACAGACAGAGCCCTGCTGAACACCACTAGCA
AATCTCTCTCTAGTAGACCACAACAAGTCAATCTGTGCTCTTTGATTACAGTTGTTCAACCAGTTACTAATCTAACTAA
TTGTAACTGGTTGAACAACTGAACCCAAAGGGTGCAAAGTAGAAACATTTCATTGTGAAGTCGGCTGGGGACAAAGAAA
ACACCACCAGAACCCCCTTCAATATGCAAAGGGAAAATTCCTTCTCAAGTACAAGCTACATGGTGCCTTTTTGAATTAT
CATCAATTTGTAATGCTGTATCAATACATATGTATTATCTGTTCTTTTGGTAAGGGTTGTTTGAAGTATAAGGTACTTC
CTCCATTAAGGTGATACTAACCACATGTTAATTATTGTCTGAAAGTCACCAAGGATATGAATAATAAAAAGTTTTAAAA
ATAAGACCTGTTTCTTTTATTGATAGTTGTACCTCAAGGCTGAAGTGAGGTTTGCAATGTAAGTTGTAAAATGTGATGT
GAAATAGACAATTCTTTGTAGTTTATATAAGGCAATATATCCATGTGCAATTATGGTCAAAAACAGCAGACTTTTAAGT
GATTATTCTAAAGTTATTTTTTTCCAAAATAACTTTATTACTCTTGATATCATACCATATTCACAAAACATTCTGGTAA
AGCTATTGCTCAGTGTGTTGTCCCAGTGAGACTCAGGGAACATTTCTATGTGACGCTTTAGGATTGAAGACAGTTCCAC
GTTTTCTGAGTAATTCCAAACTGTGTAAGAGATTATGTTCCCTTTGCATATTGGCTGCTAAGAAGCTCACTTTTTCACT
TATGATACTTGGATGCATTTTGGCTTTTTGGGTTTTTGTTTTTTGGTCTAATTTTTTTTTTTTTTTTTTTTTTTTTTGA
GACAGGGTCTCACTCTGTTGCCCAGGCTGGAGTGCAGTGGCACCATCATGGCTCACTGCAACCTTGACCTCTCCTGGCT
CAGGTGATCCTCCCACCTCAGCCTCTCAAGTAGCTGGAATTACAGGCATGTGCCACAACACCCAGCTAATTTTTGTATT
TTTTGTAGAGATGAGGTTTCGCCATGTTGCCCAGGCTGGTCACAAATTCCTGGACTCAAGCCATCTTCCTGCCTTGGCC
TCCCAAAGTGCGGGCATTACAGGTATTAGAGGTAGGAGCTACTGCATCTGGCCATGGGAAACATTTTGAATGATAACTT
TGTTTGTTTGTTGTCTGTTGAGCAGGCTGGAGTGCAGTTGCATGATCACGGCTCACTGAACTCTTTCCTTTAATTTTTT
TATTCTCTCAGCACGATTATAATTTATTTTAAAAGTAGGGAATAATTGGCCAGGCGCAGTGGCTCACACCTGTAATCCC
AGCACTTTGGGAGGCYGAGGCAGGCAGATCACAAGGTCAGGAGATCGAGACCATCCTGGCTAATATGGTGTGAAACCCC
GTCTCTACTAAAAAATACAAAAAATTAGCCGGGTGTGGTGGTGGGCACCTGTAGTCCCAGCTGCTTGAGAGGCTGAGGC
AGGAGAATGACGTGAACCTGGGAGGGGGAGCTTGCAGTGAGCCCAGATTGTGCCATTGCACTCCAGCCTGGGCGACAGA
GTGAGACTTCATCTCAAAAAAAGAAAAGCAGGGAATAATTAGTAAGTGCCTAACTAATCAAAAATTGTTTCCAGGTGAT
GTTGCTGTTGATGTATGAAAACCTCTTTCACCTAGCTTCCCTCTTCATTCTTTTCTGTCATATTTCTATTGACCAGTGC
TTTCTTGGCCCTTGGAAATGTGATTAACTTTTGCCATGACCTCTATGTTAGTGCCACACCTGACACCTTTATGCCACTC
TCTGCCTCCAGAACTCTGTGTCCATCTTATATGTTTTACCTTCTGCTGGGCCTCAGGTCTGGATGCAAAGCTGTAGAG
GAATTGAGCTGTTTTTCACAAGGGATCCAAGAACACATAGCATGTGTGAACTGTACTAAAGCTTTGAGAAGTTGTGAAG
AAGATTCACATCAACTATGCACCACACAGCCTTCTTGTCTTGCTGGTACCATCTCCTCACCTCTGTGTTGCTCCTCTTG
GAGTCTTCACCTTCCACAACCAGCACTTCTATTCTCACTGTCTGAGTGTGACTTTCCATAATTGTGAAACTCCTTGGGC
TTATCCCTCACACTCATTCTTGAATTCTAAGGAATGGCATTTTCTCCATTGTGCTTACATTTGCTTTTCAGTATTAATT

Fig. 6.196

GTTCTAGAGAAAAGCATTCATTCACTCACTCACTCATTCACTCATTTAACAAAACCTGTATGGGTATCTACAGTACTAT
GTTCTAGGTATACTGAAGACACTAACATAAATAATACAAATAATAACCTTTTCTCAGGGAATTTAGATTAAAGTAGTTC
AAATTGGAGCAGGGGAAGCAAATATTTACGTAGATTATCAGGGAAAATGTGTAGTGAGTGCCGTGATTAGCACTATGCA
GAAGATTTTATGGGAGTGGCAAAAAGCAGAACCTAACCTTTTCTGGGGTGAAAAGTGTGACCTAAACTGAGTCTTAAAG
AATGAATGTAGGGTGGAGAGAGGAATRGGAAGAGCATTTCAGGGAGAGAGGAATAGCAGGAACAGAGACACTGATGCAA
GGAATCCCATGGTATTTGTGATGAAGGGATGATTTAGTAGTTCAGTGACAAGACATGAGCCTGGAGATAAATAAGGTTT
AGGTTCTGGGGACCTTGTGAGCCAGGTTAAGGACTTTGGGTTCATCCTCAAACCATGAAGCATTCCAAGCAATTATGTG
ACAAGATCAGATTCTAGGGGCTGAATGGAGAATAAATATGTAAGTGGCAAGATTGAAGGCTGGGAATGTAAAAGGTGGC
TCCTGCTGTGGCTTGGGCAAAACATCACATAGGCTTGAGCTAGCTTTGTGATTCTACGGGATTGAGAGGAGAATGCTAA
TTTCATAAATGTTTAGTGGATATGATTGGCATGTGAWCTGAATGCAACTGGAGAAGGGGACCAGTCATTTACTGAGTWG
ATATTGGTAATTGATAAATAAGACCAAAGAAGGTGAGGTTTGGGGATAGGCAGTGTAAATTTTGGAAGTAATAAGGGGA
TTGAGGTTCTGTCCATGGCATTGGTGGGAAATCTAGCATGTAAATACATGTAAATAGATAAGTAAATATGCCTATACA
TTTATATAAGATATCTATACACTTATTCTCCTTCTTTGTTCATTTATTAGGTGTGAAATCTACGTGATTTTTTTCTCCC
ATATTATTTTTGGTATTCAATAAATGTGAATCATGAAGAGATAGCTGTTTTATTTAATCTCTGCAAAGTCACATTCTTA
CCCATTTTGATTGTAATAAAAGGCCTATGTCGTTATTTAATTTTTTAACCTTTGTGGCATGATTTATAGAAGGAAAATA
AAAGTGTCATAGGTATGATAGGCCAAAGTTGGGTTGTTGGTAAAATAATAATACCACAAAATGTTTTTCTATTTAGCCA
ACTACTGCAAAGTTACTTTAATTGTGTTTGCAATTAATTGATTTCACTTTAAACCAGAAACAATAGAGACTGTAATCAC
ACAGCCCTGCAGTTCTGAATGTTTTGTTCTTCCTTTTATTGGTTTTCTAGATATTCCTAGTTGGCAACAGGATAGAGTT
CAGTAATGGTTATGCAATTTCATTGTGCAGGGTATTAAAATTTGTGACCAGGGATCCCAGGAGACCAGCTATTAGATTT
TCAATGCACTATTAGATTAAATMTATCTACTCAAACTAAAGGGATCCTGCCTGAGGCTGTCTGATCAATAGTCTATCAT
TCCTGTGCAAATGAAGCTATTAAGATTCTCTTAGGAGGTAGACTATCTAAATTGGATCTAACTAGTAGATGGTGACTGA
AATGAGGGATATACTGATACTTAATTGGCATCAATCTGACCTTGATAAGATTTTGAAAAAATAAATACCTTTTTGCTAC
AGGTTGAAAAAGAGGTGTAAAATAGTCCCTATTTTATATTATTGGTTCTTAAGTACTTATCAGAAAAATGACAAAAGTC
AGTGTCCATAAACAAAGGTTCCATTGATCTTTGATCACCAAATCATCATTTCTATCTTCCTCTTTTTTGTTTAGGTCAC
TGCAGTCACCATTACCTCCACCACCATCATAATTATATATAGCTACCACTTCTTGGACACTCAGGTCTGCTTGTGTTTG
AACCAGACATTTCTAGCTCCAAAGCCTGCATTCTTAATTTCCTGCAGTCTTAATACCATCTTTTTAATAGAAGACCCCC
ACAGGAAAAGCTGATTCTATAATTTAAAAATGATTTGGGGATCCAATAAGTCATGATTCTATTTTATATAATTTTGGAA
GATGTGGCCAGAGAGCTAACTCTTTTTATTTTATTATTTTTCTTTTAATTGTTGACGTACTTATAACCACCAGCTATGA
AGCTATAATTTATTGCCACATTGAGTATGTTAAATTGTTAATTTACATAATTTCTGATTCTTATTTCTCCCCTCTCAAA
TTCAATTTGATAATTTAACATACCTGCTTCTGTGTGTTCCATGGAACTATTAATATAATTTTTTAACAGAATTATGAGA
GAATTACATTTCCCCAGCTGTAGATCAATTGAGAAACAGTAGAAATGAAAAGGTTAAGAAATTCTGCTTCAAAATCTCA
AATGGTCAAAGTCATTGACATTGTAAGCTCTTCTGTTCGACTCAAGCCTGGTGGAAAATGTAATGAAGAGGTACAAAGT
ACACTGCATAATCCAGCAAGCTAATTGCCCACTTTAAGGCCTCTTGAGCCCAATGGCCAAGTGAAACCTCCACTCTCAG
GGAAATTAGGCAACTGCTAAGGTGGTTTTGCAGTTTTCAGAGACACAGAGATTAGGTTTTTCAGCCTTATATAGATCTG
TGATCACTAATGATAGTCTGTGCTAATGAAGGTAGTTTTTTGAATCAAATGCATATTGACTTAGGTCTTCAGCGCAGAA
TGTTGATTCACTGCTGTCATCCCTGTCAAGAGAGCTGCATATGTAATTATGGTTTTCTTYTGAATAGATTTGCTTTGGG
ACTGTCACGCAAATTCCATTTCTTCATGTTCTTGCTATCTTTCAACCTCAAATAAATAAATAAATAGAAAAAATATCTC
TAAGCACTATGTGTGGGCTGTCATTCTTTTTACATTTAGTGTTCTAATGTTTTTAAACAAGTCAGTTTACAGGTAAAGT
TTGCTGTAATAGGATTGAATGTGGGTGTATGTGGTGGTGCTTCAGATCTCTTTCCTTCTGCTTGACCCTTCATGTTGGG
TAATAGTTTTAAAGCGCTCATGCCAGAAAGTAAACCACAACATAGTCAACTTCTCAAATATCCATGCAATGTAGAAAGT
CCGGGGTCAAGATGATTACTATGTGATCTGCTTAAGTGGGAACAGGGCCATTTCCCTCGCCTTCAACACACTCAGATAC
ATCTCAGCCAACCAACATTTTGCTGTTTGAAAAACATGGCAGACTTTATCTTGTCCCTAAAGAGAATGCTTTTCTCCAT
CCCTCTGCTTAATATCCTGTGGCTCCATTTAACCTCCAAGCCAAAGTCCAGTTTCTTTTAGAAGACTTCAGGCAAAATT
AGGAGCCTCTTATAGTGGGATGAATGCTTTCTATACTGTTTTTGTAATATTTTTGTAACATTTGCCATATTAAACTCCA
TTTATTTTATGGGTCTGAATCTTCACTAGACTAAACTGCTTGAGAGAGGAGCATGTATAATTCATTTTCATGTTCACAA
TGCTGAAACTGATGTCTATAGAGCTTCAGTATTTGTCCACTGCATAAAATCAGTAAATAAAGGCAGGAAAGTTTGTTAC
ATCAAGTAGGACCAAGGGCTAGATCCATTGGGACAATTCAACAGGGCTTTTCATTGGTTATTCTAGCTGATATCAACCT
GCCCTGACCTGAATCAACTCTGAGCCCCTACCTAGGCTGTTGTTTCTTAGCAAGTACATAATAACAACTCATCAGAATA
GCAGAGATCTTGGTAACAGGTTGCCTGACACTTGACTGATATGGGAAAATCCTGAACAGGTTTGGACTGGAATCTTGGC
TCACAACCTGTGTGACCTTGGTCAAGATATTTTATCTCTCTGAGCCTCAATTTTCTCTTCTGTTAAATGAGCATAGTGA
AACTTTGTTCATTGGTTTGCTTTGAAGAGTAAATGAGATGGTAAGTGTTGGTGTATGTAGTGCAGGAACATAACAATTC
TTGATAGATATTCATTGAATACCTRTAGTACATAGAACATAGAAAGTTCCTGTTATTCCACTCCCACCCCCACACACTT
GCCCTTCAGGTCTCAGGTTCTCCTTCCTGGTACCCCCAGAAAGATTAAGCCCCTTTGGCCCTCTATGTGCCTCTTTTAT
AGCATTTAACACAATTATAATTAATTGATTATGTAACTTTTTTATTTAATAGCTGTCTCTTGTAGAATATAAGCACATA
AATTCAGGGACTATCTATTAATGAATTTTCCTCTAGTGCCTAGTACTTAGGTGGCTCACAGTAAATGCTGATTCAATGG
ATGAATAACTTTATTCAGTCTGCTCAGTGTGGCCTTTAATTTAGATTCACCCCAAATTACTCCCCATCAGGAAGGCTTT
CTTATTCAACTTTCTCATCCTCAAGATTAGCAAAACTACTCTCTTTCTATTCCCAAATATCTTCTCTCAGTTTCATTAC
CATGATCAGAAAGTACTCTTCCTTGAATTTATTTTCTAGACTAGATCTATTTGGGGTTTCTTACCAGTGATTGTAAC
TATTGATGTGGTCTTTTTTTCTGTTTTTTACTTCTCATATGTGTATCTCTTTCCATTAGTCCTTCATTCCTTCAACAGAT
ACTTTCTGTTGTGACAGCCACTCTTCTAAGCACTATGGAAGGATTTAAAGCTGTGTGAAGCACAGTTATTCCGGTCAAG

Fig. 6.197

GAACTTAAAAAAATAATACAAGTGACAAAACATGTGCAAGTTTGACTAAAGTATGAGACTGGAATAAATACCTTATAAA
AACCAAGAGCTTCAGTATTTTCCTGCAGTTTTTTCCTCTATTGTATTCTCAACTTTTACTGGTTTCTCATCAAATAAAT
GTGTTAAAGTATAACTCAGATCATTGCTTAGATGTACTTACTTTTCCAACAAGGCCTTCCCTGAACATCCTATTTACCA
TTGCAAATGCATTCCTCTCCACTAGCGCCATTCTTACCCTCTCTTTCCACATCAATGAATTTCATAGCACTTGTCACTT
TTTTTCATGCTGTATAATGTATATTAAGATATTGCTTATTGTCTGTCTCCCTTCAATAGAATGTAAGCTCCATGTGGGC
CAGGATGTGTAGTCATTGATGTATCCCTAGAATAAGTGCCCAATTATAGTAGTCATTTGATGGACATTTATTAAATGAA
ATTATGAATGAAGTAGGGATTGGCAGTTATACACTAAGACTCTGGAAAAATGGCCTGAGTTGAATCCTGGCTTTACCAT
TCTTGGCTATATAATCTCATATTATTTACTTTCAGCCTTTCATTTCCCAGATGCCCCTACCTTCTAGGGTTGTTGGGAG
GATGGAATGCATAATACATGTAAACCAGCAAGTTCATAGTAACAAAAGTTGACTTTTTAAAAAGTTAACTTACTCTTCT
TTCCTATATATGTGTAAATCATATTTTATTTTCTCATTTTAAAAAGAAGACAATAACTAAAGGTATTAGCACATAATGA
TTCAAAACATAATATTTCCACATGTCGAGTTGAATGACTTTGAGCCAGATAATATGAGTTGAAATCAGTTTAACAATAA
TTAAATCAGCCAAGAGCAGTGTCTCATGCCTGTAATCTCAGCACTTTGGGAGGCTGAGGCAGGTGGATCACTTGAGCTC
AGGAGTTTGAGACCAGCCTGAGCAACGTGGTGAAACCCCATCTCTACAAAAAATACAACAACAAAAAATTAGCCAGGTG
TGGTGGCTCATGTCTGTAGTCCCAGCTACTTGGGGGGCTGAGGCAGGAGGATCACTTGAGCCCAGGAGGTCAAGGCTGC
AGCGAACTGTGTTTGTACCACTGCACTTCAGCCTGGACGACACAGACCATGTCTCAAAAAGAAAAAAAATAGAATAAAA
TCAAATACACACCATTTTTGAATATGTCACCAGTCTGTGTAGTTCATCTTGAAAGGACTTCAAGGTCCAATATGCATCA
TGCAGAGAGTTGCTAGGGCCCAGACAAGAGTGACTTGACCATTGGCCTGAGTAGTTAAACTATCAGATAACTAGTGAAA
CAATTCGGCTATTTCAACAAACATGTTGCATACATAACGTGTTATGCACAGAGATGACATTTGGTATAATATTATGGCA
ATAAAAGGTGCAGTTCCTGCCTTGGGGAAGCAATTGTAATATACTGTGAGGAGCTAAGAGTAAAGAAGGGGCCCTTGTA
AATGAGGGGTGGGTCAGTAGGGTAGCAGTTGGCAGAAGACTCACACTGGAATAAATGCTCCTTGACTCGATATTTTTTT
TTTTTCAAAAATGCAGAAGCATTATTGAAGCCCGGATGTTTGGGTTCTATGATAAATAAAAGATATGGATTTGAGCTGC
TCATTAAATTTTGAAAGAAAAGATCCTAAAAGGTTAGAGACCATGGAGATTTCAAAGTGGCTGACCTTGATTAGATATA
AGTGTAAGTCAGATGGGTATTCCTGGGGGGTCCCGACTTTAATACAATTTGAAAGTTTCATGATTATGAGCACCTCTCT
GTGCCTCCTTGGTGGAGAGCTGACCTATGAGTAGTTACTGTGTGAATTAATGAACATCCTTCAGCAAAAGTTATTAATA
GTAATGTTTGGTAAAAGTCCTTTAGAAGTAGACTGTTATGTGTGTTACTAGTTATAATCAATTAATAACCTGTGATTTG
TAGGAGCAAATGGTCATAGGGATACAGTATACATTTTAATCTTGCTCTTCAAACATCACCGTAGATCCATGGTCCTTCT
CAAGACATTGGCTTTGTTCTGAAGCAGCTCCCACGCTCTTCCAGAAATCTCTATGCGGGACTCTGAATGTGGTCAAGAA
GAAGATGTACTGGATGCACATTCCCTATCAGGAGTCTCTTAATAGTCTCCCACCCAGTTACAACATATTGCTGTAATCC
CACACAACAGCTGAAACATCTTTTCTTCATTTCTTTTAATTCCTGTAGCATTTGATGTCTCCACCGTGTAATTTACATT
TAATTGTAAGTTGTTTTGCATCATTTAATAGTTGTTTCAAGTATGAATGTCTTGCCTTCCCAAGAAGATTAAAATAAGA
TTCCTTTAAGAACAGAGGCTCACTGCGCAGTGCCAGACATAGACATAGAGTAAACCACAACTACTGACTTCACTTCAAG
CTGACCTAACCATCTTCCCAGCGAAGACGGCCAACCTGGTGTATAACTCATTCTTCTGATCTGCACTTACTTTATAGAG
GAATAAATACACTGAGTTATTGGGAGTTTGTGAAGGAAGTGACTAGAATTTCAATAAAATAATAAAGTTTTGTTTTGTT
TCATTTCGTTTGAAAAGAAACTGCTGCATGGCCAAGATATTTGAAAATGGAGGCTGGGATTGGACAGGGGTGAAGAATT
GTGTCACAGACTTTGTACTGGAAAAATGTCTGCCTTAATCTAGTGAATAAATATGACTGTTCTTTGAAGTCCTTTTTTT
CCTCCCCGAGTATAAATTCAAATGCTATTCATTTTCTGAGTTGCCTGTATTTCTTTAGCCCTTAAGGCATCAACCTTTG
ATGTCTTATTTTCATAATATTTTCTCTCTTAGAACTGATCCACATATTCAGTAGAATGGAGGTATAAATCCTAATCCAT
AGACTACTCCGAGCTTATTGAAAGTGAATCTTATTTAGATTCTTTCCTTTATCTGCTCACTGACAGATCTAATGTTAAA
CAGAACCTTATTATCATCACAAGGAAGTAGATTAAAAAATACTTTTCAGTCATTCGTATTCAACAAGTACACTCCATCA
AATCTTGCCTAACTTTTTTTGCAAATAACTTTGCTCCTTGGATCCTCTCCCAGGTCTTTATCAAAATGGAACCACATAC
ATTTGTAACTACCTCATAATTAAAGTTTTGAGTCATTAAGTTCARTTATCTTTAAGGGTAAACATTGAATTTGCTGTAA
AAGTTCCATTTGTTTCACTAAAATTYGCAAATAGTTGTGATTTTCTTTGCAGATCTGTCCAGTTTGATCTTGAAACAAA
ACTGCTTAAAACTTTATCAGCCTTCCTTCTTTTTGGCTTAGCTTTAATAACCACTTTTAATATATAACTCAGATCTATA
AATAATACTGAGAAAAGCAGTGGAAAACATTGCAGGTATAAAGACTTTTCATGTTGACTATTTTTGGTAAAGATTCTGG
ACATTTGAGTGAAGTCTCTCATGTTTTATTGGTTTATTTTACTCTGGCACCGCTTATGAAAAAGGGGACTTGAATTACT
AGAGGGTAATTTTCTTTCTTTATTTTATTTATATATTTTTTACTATTTTTTTCCTTCAGTTATGTTGTTTATTCAAAAC
TTGAAAACATATACAATTTCAGGGTCTTCTAGAGTATATTTACATCATTCTGATGAACAACTTTATAATTTTTAAATTA
GCAAATATTCTCAACCCTGTCAGCTTTAATATTATAATTAATGTGCACAAAKCTGAAAACTTTTCTTGCTCATACTATA
ATACATTAAATAGACCTTAGCAAACAACTTCTTATTTGAATACTTGTCTGTCCCTGTCACTCTTCTCATACTTTAGCCT
CATAACTTTGGTTATAATTATGTAAATGGTTAATATTCATGTTCTCATTGCAAAATGAAAAGTGAGGAAGAGAAATTAA
GCCATTTGCCTAAGGTCACAAGTCTGGTAAAATCAACAGAGGCACTCAGAATACCTCCAAAATCATTTCCATGATGCCA
GAACCTTTAAATGCTACAGAAACAAGCTAAAGCGATGCATTTAAATGTGCTTCTATGTAGGGCTTGAGCTGTATCTAAA
CTTAAATTAGAGCTCAGCCAACATAGAATCTAGTTCAGCAATACTCTACAACATGAGATAACCATACTGATGTTTGATA
TAAAATGAGATTGCAGAGGAAACACATTTTAATACCTGAGGTGTGTGCTTAATCTTCTTGATGTATATTAAAAGCTCAG
TACGTGAGAGTAATATGAGGTGATGGGGTTTACTCTTAAAGAGATTACTAATAATGTTTATTTGGAAAAAGATGAAGAT
TTTAGAGGCTATTTAAGAAACTGGTTCTGGGAAAACCAGCCATAACTTAAGAGTTCTTCTTTCACCCAATCCCCTTGGA
ATTCTGCTTTGCTATAGAACCATGGTCAAACCAAGGCAAGCAGCACAAATTACATGAACAAAGAATACAACAATAAAAA
GCGGATCCTTAAGACCCTCCCAAGAAGACCAAGAGCTCTCTCTTTAAAACTCTGTAAAATACCTAGGTTCTCAAGTCTT
CCTATGTCTTATTTCTTAACTAATTGCACTATCAATTCAAAAATGGAACAAAGGATATTCTACGTATCAGAACCTTTTT
TCCTATACATTAAGAAGAACTTTTCCCACATGAATAGGTAATATCACAGTCTAAAGCCAGAGGATGAAACCTATGAATT

Fig. 6.198

CTTCCTATCATATATTTTAACAAGAAACGTAAATATCTATGACCTACTTATAGCCAATTTATATTTTGCCCAGGTTGTT
TTGTTTCTAAACTTACCCCTCATATGGCTTAATAATGAAGGCCATAAATGTGCCTCTTTCCTATCTCACCCCTATGACT
TGACATGTATTATAAAATGAACTTCCTATATAAAATAATATTTATTGAATGAAAGGAAAGTATTACATACAACTTTCAT
TATTATATTATTAAGCTTATTTTTTGCACATCATRGCTAGATCATCTTAAAATAGTTTGGCTCTGTCTCTTTTCCCATT
TTTTTTTTTATTATACTTTAAGTTCTAGGGTACGTGAGCACAACGTGAAGGTTCGTTACATATGTATACATGTGCCAT
GTTGGTGTGCTGCACCCGTTAACTTGTCATTTACATTACGTATATCTACTAATGCTATCCCTCCCCCCTCCCCCCACTC
CATGACAGACCCCGGTGTGTGGTGTTCCCCACCCTGTGTCCAAGTGTTCTCATTGTTCAATTCCCACCTATGATTGAGA
ACATGCAGTGTTTGGTTTTCTGTCCTTGCAATAGTTTGCTCAGAATGATGGTTTCCAGCTTCATCCATGTCCCTACAAA
GGACATGAACTCATCATTTTTTATGGCTGCATAGTATTCCATGGTGTATATGTGCCACATTTTCTTAATCCAGTCTATC
ATTGATGGACATTTGGGTTGGTTCCAAGTCTTTGCTATTGTGAATAGTGCTGCAATAAACATACATGTGCATGTGTCTT
ATAGCAGCATGATTTATAATCCTTTGGGTATATACCCAGTAATGGGATGGCTGGGTCAAATAGTATTTCTAGTTCAAGA
TCCTTGAGGAATCRCCACACTGTCTTCCACAATGGTTGAACTAGTTTACAGTCCCACCAACAGTGTAAAACTGTTCCTA
TTTCTCCACATCCTCTCTAGCACCTGTTGTTTCCTTACTTTTTAATGATTGCCATTTTAACTGGTGTGAGATGATATCT
CATTGTGGTTTTGATTTGCATTTCTCTGATGGCCAAGTGATGATGAGCATTTTTTCATGTGTCTGTTGGCTGCATAAAT
GTCTTCTTTTGAGAAGTGTCTGTTCATATCCTTTGCCCACTTTTTGATGTGGTTGTTTGATTTTTTCTTGTAAATTTGT
TTAAGTTATTTGTAGATTCTGTGTATTAGCTCTTTCTCAGATGGGTAGATTATAAAAATTTTCTCCCATTCTGTAGGTT
GCCTGTTCACTCCAATGGTAGTTTCTTCTGCTGTGCAGAAGCTCTTTAGTTTAATTAGATCTCATTTGTCAATTTTGGC
TTTTGTTGCCATTGCTTTTGGTGTTTTAGTCATGAAGTCCTTGCCTGTGCCTATGTCCTGAATGGTATTGCCTAGGTTT
TCTTGTAGGGTTTTTATGGTTTTAGGTCTAACATTTAAGTTTTTAATCCATCTTGAATTAATTTTTGTATAAGGTGTAC
GGAAGAGATCCAGTTTCAGCTTTCTACATGTGGCTAGCCAGTATTTCCAGCACAATTTATTAAATAGGGAATCCTTTCC
CCATTTCTTRTTGTTGTCAGGTTTGTCAAAGATCAGATGGTTGAAGATGTGTAGTATTATTTCTGAGGGCTCTATTCTG
TTCCATTAGTCTATATCTCTGTTTTGGTACCAGTACCATGCTGTTTTGGTTACTGTAGCCTTGTAGTATAGTTTGAAGT
CAGGCAGCGTGATGCCTCCAGCTTTGTTCTTTTGGCTTAGGATTGTCTTGGCAATGCGGGCTCTTTTTTGGTTCCACAT
AAACTTTAAAGTAGTTTTTTTCCAATTCTGTGAAGAAAGTCATTGGTAGCTTGATGGGGATGGCACTGAATCTATAAAT
TACCTTGGGCAGTGTGGCCATTTTCATGATATTGATTCTTCCTATCTATGAGCATGGAATGTTCTTCCATTTGTTTGTG
TCCTCTTTTATTTCRTTGAGCAGTGGTTTGTAATTCTCCTTGAAGAGGTCCTTCACATCCCTTGTAAGTTGGATTCCTA
GGTGTTTTATTCTCTTTGAAGCAATTGTGAATTGGAGTTCACTTCKGATTTGGCTGTTTGTCTGTTATTGGTGTATAGG
AATGCTTGTGATTTTTGCACATTGATTTTGTATCCTGAGACTTTGCTGAAGTTGCTTATCAGATTAAGGAGATTTTGGG
CTGAGACGATGGGGTTTCTAAATATACAATCATGTCATCTGCAAACAGGGAGAATTTGACTTCCTCTTTTCCTAATTG
AATACCCTTTATTTCTTTCTCCTGCCTGATTGCCCTGGCCAGAACTTCCAATACTATGTTGAATAGGAGTGGTGAGAAA
GGGCATCCCTGTCTTGTGCCAGGTTTCAAAGGGAATGCTTCTAGCTTTTGCCCATTCAGTATGATATTGGCTGTGGGTT
TGTCATAAATAGCTCTTATTATTTTGAGATACATCCCATCAATRCCTAGTTTATTGAGAGTTTTTAGCATGAAGGGTTG
TTGAATTTTGTCAAASGCCTTTTCTGCATCTATTGAGAGAATCATGTGGCTTTTGTCTTTGGTTCTGTTTATATGCTGG
ATTACATTTATTGATTTGCATATGTTGAACCAGCCTTGCATCCCAGGGATGAAGCCCACTTGATCATGGTGGATAAGCT
TTTTGATGTGCTGCTGGCTTCGGTTTGCCAGTATTTTATTAAGGATATTTGCATCAATGTTCATCAGGGATATTGGTCT
AAAATTCTCTTTTTTTGTTGTGTCTCTGCCAGGCTTTGGTATCAGGATAATGCTGGCCTTATAAAATGAGTTAGGGAGG
ATTCCCTCTTTTTCTATCGATTGGAATAGTTTCAGAAGGAATGTTACCAGCTCCTTTTTGTATCTCTGGTAGAATTCGG
CTGTGAATCCCTCTGGTCCTGGACTTTTTTTGGTTGGTAGGCTATTAATTATTGCCTCAATTTCAGAGCCTGTTATTGG
TCTATTGAGGGATTCAACTTCTTCCTGGTTTAGTCTTGGGAGGGTGTATGTGTCCAGGAATTCATCCATTTCTTCTAGA
TTTTCTAGTTTATTTGCATAGAGGTGTTTATAGTATTCTCTGATAGTAGTTTGTATTTCTGTGGGATCAGTGGTGATAT
CACCTTTATCATTTTTTATTGCGTCTATTTGATTCTTCTCCCTTTCTTCTTTATTAGTCTTGCTAGTGGTCCGTCAATT
TTGTTGATCTTTTCAAAATACCAGCTCCTGGATTCATTGATTTTTTGAAGGGTTTTTTTGTGTCTCTATCTCCTTCAGT
TCTGCTCTGATCTTAGTTWTTTCTTGCCTTCTGTTAGCTTTTGAATGCGTTTGCTCTTGCTTCTCTAGTTCTTTTAATT
GTGCTGTTAGGGTGTCAATTTTAGATCTTTCCTGCTTTCTCTTGTGGGAATTTAGTGCTATAAATTTCCCTCTACACAC
TGCTTTAAATATGTCCCAGAGATTCTGGTATGTTGTGTCTTTGTTCTCATTGGTTTCAAAGAACATCTTTATTTCTGCC
TTCATTTCGTTATGTACCCAGTAGTCATTCAGGAGCAGGTTGTTCAGTTTCCATGTAGTTGAGCGGTTTTGAGTGAGTT
TCTTAATCCTGAATTCTAGTTTGATTGCACTGTGGTCTGAGAGACAGACTGTTGTAATTTCTGTTCTTTAACATTTGCT
GAGGAGTGCTTTACTTCCAACTATATGGTCAATTTTGGAATAAGTGCAATGTGATGTTGAGAAGAATGTATATTCTGTT
GATTTGTGGTGGAGAGTTCTGTAGATGTCTATTAGGTCCACTTGGTGCAGAGCTGAGTTCAATTCCTGGATAACCTTGT
TAACTTTCTGTCTCGTTGATCTATCCGATGTTGACAGTGGGGTGTTACAGTCTCTCTTTATTATTGTGTGGGAGTCTAA
GTCTCTTTGTAAGTCTCTAAGGGCTTGCTTTATGAATCTGGGTGCTCCTGTATTGGGTGCATATATATTTAGRATAGTT
AGCTCTTCTTGTTGAATTGATCCCTTTACCATTACGTAATGGCCTTCTTTGTCTCTTTTGATCTTTGTTGGTTTAAAGT
CTGTTTTATCAGAGACTAGGATTGCAACCCCACCTTTTTTTTGTTTTCCATGTGCTTGGTAGATCTTCCTTCCTCCCTT
TATTTTGAGCCTGTGTGTGTCTCTGCACGTGAGATGGGTCTCCTGAATACAGCACAGTGGTGGGTCTTGACTCTTTATC
CAATTTGCCAGTTAGCATCTTTTAATTGGAGCATTTAGCCCATTTACATTTAAGGTTAATATTGTTATGTGTGAATTTG
ATCCTGTCATTATGATGTTAGCTGGTTATTTTGCTCATTAGTTGATGCAGTCTCTTCCTAGCATCGATGGTCTTTACAA
TTTGGCATGTTTTTGCAGTGGTTGGTACTGGTTGTTCCTTTCCATGTTTAGCACTTCCTTCAGGAGCTCTTCTAGGCCT
GGTGGTGACAAAATCTCTCAGCATTTGCTTGTCTGTAAAGGATTTTATTTCTCCTTCACTTATGAAACTTAGTTTGGCT
GGATATGAAATTCTGGGTTGAAAATTCTTTAAGAATGTTGAATATTGGCCCCCACTCTCTTCTGGTTTGTAGAGTTTCT
GCCGAGGGATCAGCTGTTAGTCTGATGGGCTTCCCTTTGTGGGTAACCYGACCTTTCTCTCTGGCTGCCCTTAACATTT

Fig. 6.1199

TTTCCTTCATTTCAACTTTAGTGAATCTGAAAATTATGTGTCTTGGAGTTGCTCTTCTCGAGGAGTATCTTTGTGGCAT
TCTACTAGAGGGTAATTTTCTTTTAGGGTGTTATAATTATTTTAAAAATTGATTCATTGGAATATGTTATCAATGTCAA
AACATGAGATAACTTGATGATTATCTCTTTATGAATTTGAGGTGCTGAGTATTTCTTGTTTTTCAATTACAGCATTCTT
TCAAATAGCCAGTCTCATGTTTCTATTTCTCTCTTAGCTGCTTCTTTCTTTAATATTTTGTTGCTAATGAGAACCTCTA
CCAAAATGAGTAACCAAAGGGCTGAAGAAAGTTGAACTGTTAAATGGTGTTTGTTAATTGCTTCTTCAATTACAGAAGG
ATTTTATATGTTGAGTAACATGCCATTTGAAGATTTGACAATTCCATCCTCTCCTTGGTAACTCCCCAGTCATTTGGTC
TAGATTGATCCATCATCTTTCTCACTTAAGAGCATTTAGTTCTCACCTTCAAATAATCAGCAGATTAAAATAGTGGTAC
ATAGTCATCTGTAGGAAGAAAGAAATAAGCTGTACAGTAGAGTGCTCTGTGGGTAAATATTTGTTGTGTTGAGATATAA
CCTGTGTATATTTATTAAATATCAGTGACATTTCTTTGCTTATTCTTTCATTCACTCAACAGATATTATTGAACAGCTG
CTGTGTACTAGGCATTGTTCATTTTCCCAAATTCTAAAATTGTGATCATTTCTATTTTTAAAATGTATTATTTAACAAA
GTACTGGTAATGATATATATCTTTATTTCCCAGTGGGTTTTGGCAATATAGCATAAAGATCATGAAAGTGGGCTCTAGA
ATCTGAGAGCCTGTGAAAACTTCAGCTCCAACACTTTCTAGTTGTGTGAGCGACTTTAGGCAAGTTAATGAACTTCCCT
AAGCTCATTTACTTCATCTTTACAATAGGTATAATAATAGTACTTACCTCATGTCCACTATCTAAAGAGTAAATGGGAA
AATATGCAAAGCATATTGCACTGGGCTTGGCAGGCAAGTAATCCCTCAATAGATGTTAAATTTGCTGCTGTTATTAAAT
CATAGTTCTTGCTTAGTTGATTGTTATAATCTTTTTCAGTATTTATTGAACAAATACCTATGAAGTGTACTCAGAGTAA
ACTTGGACAGTGAGAGACACCACCATCTGGCCTGTTGTGTCATAAACAAAAGCCTTAAAACTGGGTCTTGGCAATGGTG
AGGGGAACAGATGCTCTAACTGCCTTCTAGAATGTGTTTTTCACTATGTGTCTAAGCTGCGATGAATGTCACTAATGTC
ATCTCTCTTTCTATTTTAGGTAAGTACATCACCATTTTTGAAACTCTGTGCAGATGGGTAAGTCTTGCTGCTGGAACTT
TTCCTGTTGATTTGCATACTTGGAGGATCTGGATCAGACAGTGTGCTTATCGTGGTCAGAAAATGCCTTTATTTTATTC
AAGCAGAGATCTGGAAAGGTAACAGAATTTCCCACACATGCTTTCCATCTCTGTTTCAAATCTTTGGCAGAAAAAAAAA
ATCTGTTATTTTTAATTAGATAAAATGCTATGTTAAATAATTGAAGATTTAATTTCTTACTCTGTCAATAGAAGGCAGA
GTAGTTTAAAAGACTTGAGAAAAGAAAAACAATTGTTTRCTTCCTATTAGAAATCACAAAATCCTCTCTGAAGTAAACA
TACAAATCTTTGTTTTTCTGCTTTCAAACAGGGAAAATTTTTTCAGTGCCTAACAAACAGGTGTTTCATGATTAGATTA
TTAATGAGAAATAATTTTGTATCAAATAGAAAAAGTGACAAATGGCCCTGCAAGACCWTGTGTGCATAATATTGTAGAA
GGAATTCCTGTTATGACTAAGAGTTGATGTAGTTAATTTAGTATGTCTAAAGTTGGCTGTAATCTATCACCACAGAAGA
GCTGGAAGAAATGATCTTAAATCACAAAGGATTTAGTAAAGACCTACGTGAGCTGTGAAAGATGATTAAACTATGAAAT
AGTTCTCAAAAGGAAGTTATAAATTCCTTGCCACTTGTGAAATCTAAAAACTACATAGACAGTTATGTTCRTATTAGAA
AATAAAGATTTATCCTGCCTTGGCACAATGTATTGAATTGGCATGTTGTTCTCAGTAACAAAGTCCCAATTTGCTTCAT
CAGCTTTAATTCCCTATTTACTCCATACATACTCTATACTCTATGTGTTAGTCTGAGTCTTGCAAGAAGCCCATGCCAA
AATGGGATTAGAAATGCAAGAATTTTAGGAAATGCCCTTGTAGAGGAATATAAGGAGGGAGCCAGTTAAGGCTGAGGGA
AACGTCAAAGCATGATCCAAGTTTGACTCTGAGTAAAGAAGGGAGAGAGAATTGGTGAGAGCATCCTTGATTGGGCTAG
CCAAAGGCATATGGGAGTCCTCAAGCCAAAATCAGCCATCAGAGGAATCCTGTTTCCCAGGAATGTGTCTGCCACAACA
TGCCCTCTGTGCTCAGTAAATACCAGGAAGCAGGGCATGGGAGGTATGGCCTTAGCTAAAATGTTGCAGTGAATTTCAG
AGGCATCAGTTGGGGCCCTTTGCTGGTTATAGTTCCTATAGTTGGAGGTCTGCAGCATATCCTCACGGCCCCACACAGA
GACTGTTAGATCTTGGTTCTTTCTGTTTCTTATTTTCTATTACAATGCCTTCTATCTCCACATCTTACTCATTCTTCAT
GCCCAAATCAGTTACCACTTCCTTCATGAAGGTTACTCTGTACAACCTAGTGGCTAATAATTACCATTCTCTTTTGTAA
TTCAAAAAATTCTTGTATTTTTCTGTGATATTTATTGTTTTTGTTATCCATTTATTCAAAAAAATGGTATCGAGAGCTG
CATTTGTGCTAGCCACTTTTCTATGCTCTGTGGGGGAGAGGATCAGAAAAAAATGATAAAACATGACAGTCTAATGGAA
AAGATAATACTGTAGAATACATTAAAATATGACAGAAATGTTTGAAGTATGAGCAAAAGATATGAGGAGACAGAAGAAG
GAAGAATAACCTTTTGGGAAAGAAGGGAGGGCAGTGCTCAGGGAGGGATGGAGGATTTAAAGCAGGACTTGACATTGAG
TTTTGTCTTGGAGGGTGACTAGCTCGTTAGGAGTTGACAGTTGAATAGGCATCATTTTCAAGTTCATGGTTATATGAAG
GAGCATAGAAAAGGTTTGTAGTACAGAGAGCCTTGCATGTCATAGGGAATTTATGGGATTACGGTCAAAGAGAAATCTG
CAAAATTGGCCTAAAGCCAGATTATATGGGGCATCGGGTCTTGGCAAGTAGTTTGGACTTTATTCTATGAGCCCAATCC
AATTCAGAACATCTCAGAGTCATGTGGGCCAGGCTGAATGACAAAAATATTGATGTATATAATTCTGTTATGGCATACT
AAAATGGTATGATTCTACCAAACAAAAAAGATGGTGATACTATATATTTAAATATGTTGTCTATATCTAAAAACTACTA
ATAAATTACAATGAAGAAATCACATTTGATAAAAGAAGATAAAAATATAGGGCATAAGGCCAAAATGTAATGGAACGA
TTTAGCAGACTCTTAATCTCAGGTGTGAGATTTGTCACGAATAGCTATTTTCTGCTCGATATATATTTACTTTCTGTAC
AGTGTGGTTATAAAGACATAACTGAAAAATCTAGTTGTCCTCGAAATATGTAAGGTATCAAAAAGCAGGATTTTATGCT
GAGTGTGCTTTATAATATTTGGAAAATAGTTATAACTAGTTGAAGCATTCACCAGAATGTCACTTGACAATTCTAACTT
TAAATATCTATAAGCCATAAAGTTAATATATTATATTGATTTGATTTTTAATTTGATGTAATTTCAGATTTACTGTAA
AGTGGCAAGAATAGCACAAGGAATTCCCAGATACCCCTCACCAATATCCCCCAAATGTTAACATTTTACTACATTTACT
TTATTCAATCTCTGTCTCTCATATCTACCTTTCTGTCTATCTAATCATCTATGTATCCGTCTACCCATACACACGTTTC
CTTATTGATACACATTAAGAGCAAGTTGCAGACATGATACTCCTTTGCTTCTAAATACTTAAATAATTCCTAAAAACAT
GGAATTATCATACATAGGTACAGTTCAGTGGTTAAAATTAGCAAATTAACATGGATAAAATGTTGTTATCTAATCTACA
GACTTTATTCTAAATTTCAATAATTGTCCCAATAATGTTCTGTGTAGCCAATGAAATTACAAAATCATGCTTTTCAATC
AGTTGTCATGTCTCTTTAATATCCTTTAAACTGGAGCAGTTTCTGAGTCTTCGTGAAAGACTATTTCATGACATTTATA
TTTTTGGAGAATTACATGCCAATTGTTTTGTACACTCTCTTGATTTATTTGGGCTGCTATAACAAACTACCATAGTCTT
CATGGTTTATAAACAACAGAAATTTATTTCTCATGGTTCTGGAGGCTGAGAAATCCCATGATCTGTGCTAAGCAGATTT
TCTGTCTGGTGAGGATCAGCTTTCTAGCTCATAAATAGCTGTCTCCTTGCTGTGTTTTTACATGGCAGAAAGGAAGAGA
GAGTTCTCTGGGGTCTCTTTTATAAGGGCATTAATCCCATTCATGAGGGCTCTGTCCCCATAATCTCATCACTTCCAAA

Fig. 6.200

AGGCCACACCTGTAAATACCATCATATTGCTGATTAAGTTTCAACATATGAATTTGGAGGCAACGTAAACATTCAGTCT
AAAGCATAGACTATCTTTCAATTTGAGTTTATTTTGTGTTTCCTGGGGATGATAGTCAGGTCATACAACTTGGGCAGGA
ATATCACAGTAGGGATGCTAAGTCCTTATATCCAGAGGTAGATGCTGTTGTTTAGTACCATTACTGACAATTTTAGCTT
TGATCATTTAGTTCAAGTGGTGCCTACCAGATTTCTCCACTGTAAAGTTACTATTTTCCTCCTTTGTAATTAAAAAGCA
TTTTGTACCATGATAATATGAGAGCATGTAAATATGCTGTTATTCCTCAATTTCTTACCCAATAGCTTTGGAATCCGTT
GGTGATTCCTGTCTAAATCAGTTACTTGTGTTATTATGATGGTTGCTGTTTTCATTGGTTTAATGCTGCCGTAACAGAT
ACCACAAACTGGGTAATTTATAATGAATAGAATTTATTTGGCTCATGGTTCTGGAGGCTGAGAAGTTCAGGATCAAGGG
GCTGCATCTGGTGCAGTCCTTTTTCCTGCTGCATCATGACATGATGAAAGGTATCACATGGCAAGAAATAGGGAGAAG
GGGGCCAAACTCATTTTTTTTTTTTTTTTTTTTTTTGAGACAGAGTCTCGCTCTGTCACCCAGGCTGGAGTGCAGTGACTC
CGCCTCGGCTCACTGCAACCTCCACCTCCCGGGTTCGCCATTCTCCTGCCTCAGTTTCCCGAGTAGCTGGGACTACAGG
CACCCACCACCACGCCCGGCTAATTTTTTGTATTTTGTTTAGTAGAGACGGGGTTTCACCGTGTTAGCCAGGACGGTCT
CCATCTGCTGACCTCGTGAGCCACCCACCTTAGCCTCCCAAAGTGCTGGGATTACAGGCCTTAGCCACCGCACCTGGCC
CAAACTCATTCTTTTATAAGGAACCTACTCCTATGATAACAGATAAAGTAATCCATTCATGAAGGGAATGCTCTCATGA
TCTAATCATCTCTTAAATGTCCCAACTCTTAACACTGTTGCGTTTTGGTCTAAGCTTCCAAGATGTGAACTTTGGGAGA
CATATTCAAACCATAGTGGTTTGCTAAGGGGAAATCTTGTAATTTCATCATTTCTTCCTCTTTTATTAGTTGGCTTTCT
ATTATGCATAAAAATGTTTCTTCGTGCTTGTTTCTGTGTGGAGTCATGAATTCTTTATTTAGCAGGTTGTTATCCTTTA
ATATTGTTGGTTAATATCATTATTTATCTTAATCCTCATACTGTCCTGGATTTGGACAGTACAAGGTACTTCTAGTTGA
CTCCCTTGTCATTTTAACACGTTACTATCATTCTTTGAGTACTTTTTTACTTTTTGGTTTTAGATATGAGACTCTTGTT
CTTTTATCCAAGCCTTGGAATCAGCTACTTTTATAGGGCTCTCTGTTTCCTTTCAGTAAAGAATGGTTTTTAGAAATCA
AAATTTGGAGAGTAGGTGTGCTTTTGCTTCTAGGTCCTTTTAGTAGACATATCTAGGGGGAAAGTGTATGTATGTACAT
ACTCATATATAAATGTGTGCATATATATGCATACCCACACATACCTATATCCATGGGTATATTCAGATATTTGTATACA
TTAAACCTAGGATTTCACAATGATAATCCATCATTGCAGTGCTCATTCTGTTCTTCTCCATTTTCGTATCTGTAACTCT
GTGAGAAGTTACGGTGAGAAGCCTGGCTCCCATTATTCACAATATATTATATATTGCATAGGATTTTCTTACCTGTGGA
ATGTGGTTTCAAAAATTACTTTCAGAATTACCCACTCACGCCTCTATGGAAAAAGAGAAGTAAGGCAAAGAAAAGTATT
TCAGTAAGTAGACTTTTAGCATTATTTATGTTTTATATGCCTAATTCTGTACTCAAAATTCACTTGGTTAGTTCTTTTC
TCACAGCCACTTCCACTCACTTCACGGTTCTGTTACTTATTTTAAATATGGATCAGTTAATTTGTTTTAATATATAAAT
TTGTTTTCATCTAGAGTTGAATCGATTAATCTGGAATGATATTTTCTGTTTCTATGTTTAAAATATCAACTAATAATTT
CCTTTCCTTAATAATAAGAAATCTCTAGCACCATTTAAGACTCAGTTAACTGAGGTGTAGGTATCCATGTTTTCCTAGA
GTATAGAGCTGTGATCTAAATCAGAAAATCTGAACAAGTTTGTCTTGGACCAAACTTCAGGATAATCTGGAAACAACGG
GACAAATGTTAGTGCATGAGTATTTTCAAACATAGTTCTGAGTAAATTCCAAATGCATATGTGGGTTTGTGGCTCTTCA
TATCTGGTTATTTGTACATGATCACATCTTTATTGTAGATAATAAAAGTTGGGTATAAAAGCAATGCCATTAATTATGT
ATTTTTTATGCTTTTTGTTTCAAAAAAGGAATTAAGCAATCCTAACTTTAAAAATGGATAAAATGCCTATGTAAAGCTA
AGTTAGAAACACAAATGTAAAAGTGTATTTCGTACTTGGAGTTAAGTTTAGGTCTTAAAATATTAATAGCTTCCTCAAA
GATACAGCAAATAGAGAAACCTGATAATATTTATGTCTTGAGAGAAAATTATCTTTCTATAATTAATTATAAGACTTTT
CATTAGGGTCTTTGTGTAAAGTAAAGCAATAATATGTTTAATAGTATTTTTATGTGAGTTACATACATGTACATTATTA
ATCATGAATAAATAGTGATGTTCTTATACTTAGTCTTGTTATAAGTCAAAATATTAAATCATTATTCCATGAAAGTCTT
CATATAGTAATTTAAATCATTGTTAAGTCTGGTTACTTGATGTTGAGAAAGAGCTTAGTACACATAGTAGAATGACTTG
CCAGCCTTGCCATTAGGTTATCTTTCTCATACATTACTTACCTTAAGTTGGCAGGAGCTTGATTACAGAAGATAACTGT
CATTTATCTCTTTGTGTGGAGTGCATATATTGTGGGATGTCTATAGGAGTATTACCCAAAGGGTTTGTATTACAGAATT
ATAGTTAACAAAATCACTAGGAAATGTTTATGGAGGGAAGATAACCACAGATATATCTGATTACCTATTTGGAGGACTA
GCAGTGGAATTTCTTGCTGTTTCTCATGTGGCCAAAACTAATAAAATAAAATAAATTTAGAAGAGTTTTGTTGTACCAA
GATAATCCATATATTTCAGTTGGTATGGAAAAACATCTTTTCTTTCAGCCATTGTTACTATGACACTTAGACACTCTAG
TCTACAAAATTATCCTAGGTTTAGCAATATTGGAATTAAATTTTATTGTTCCTTCCTGATTGCAGAGTTATAAAAATAA
GGATTGAGTTATTATGAGAGGCCGATTGTGTAATACATATCATGAGTTAAAAGTAAACGTTGACTTTTATTATATAATTGC
CTTTTGCCACATGAGAGAAAATAAACTAAGTGAATAAGACTGTCTCTAAGTCTTCTCTGAGATTAATTTGACAATTTAC
TAGAAATAGAAAGATTGGTAATGCTCAGTCTAGGAAAGGGGTAAAGAAACAGGCACACATATATTACTTGAGAGATTGT
AAATTTTGTACAGTTACAATGGTAACACTCCATGTCAAAATATGCATATAACAATGCCTCTTGTAGACATTTATCCTCA
AGTAACAAGAAGTAGGCAAAGATTATTTTATGTATTTTGACCGTCAATGAGTTGATAATAGTAAAGGACTAGGGAGGGT
TGGTGTTTAAAACAGGCCAGGTGCGGTGGCTCACACCTGTAATCCCAGCACTTTGGGAGGCCAAGGCGGATCACTTGAG
GTCAGAAATTTAAGACCAGCCTGACCAACATGGTGAAACTCCATCTCTACTAAAAATACAGAAATATCCAGGCACTGTG
GCAGGTGCCTATAATCCCAGCTACTCAGGCGCCTGAGGCAGGAGAAGTGCTTGAACCCCAGAGGTAGAGGTTGCAGTGA
GCCGAAATGGTGCCACTGCACTCCAGCCTGGGTGACAGAGCCAGACTACATCTCAAAAACAAACAAAAAACTAAAACAG
ACTAAATTGTGGTACTTCCATATTTTTTTAATGATAGAGATATTAGCATTGAAATTTGTCACAAAACTACACATAATG
TAATTCTTTACACATTTTTAAGTATATGGCTAAAGTATGAAACCAACTCTGAGTAATAGGATTATAAATATTCTTTAT
CTCCTTGTATTTATATTTATTTATACCTTAATTAAATTTTGAAATAATGTTGTTACTTTTACAATAAGAAGTTGTGAAA
AACTATTACCATGAAAATAATCTAGCAAGAATTTGATTTAACATTGCTCATTTCTTGAAAGCAAGCCAAGACATTTTTT
TTTACTCTTTTTGAGACTGAGTTTAAGGTATTTGATCAATTGTTAGAGGATGAGTTTATCATTTAGTGCCTTGCTGAT
TTGTGCAGGCACCTCAGTTTTAAGTAATCATGGGATTATTTATTTGTTGATTTAGCATTTGTTCAGTACTTATGTGCTT
AATAGCACTTGAACATACAAAGAGAAATGAGATTTTTGGTCCCCAAGAATTAAAAATTTAATGGAGGAGATAATCATAA
ACTTACAGAGAAGTATATGATAGGCTGTGTCAAAGTGGGAACAATGTAGACTAGGGAAATACAATGCTTCTCTTGGATG

Fig. 6.201

GGTCACACCTAGGAGGGGCCAAAGGGGACAACTCACTGGGTATTGGAATGATCTGGATCCCTGGATTACTTGGTTGGTG
CTGGGCTGATTCGGAAACCCTTTCTATTTTCAACTCTTCTGCTAAACATCATTATAGTAACA AGTACACATCCTGCT
GTTACCAAGTGTCAGTGTTTGGTCAGTTTGAGTTTTACAGGCATATAGAACTGCCATTTTGTCATTTCTGTCTACATTG
TACAAAAAAGTAATTTAACTGAGCTTTATAACTTATGATTTGGAGAACTCCACAGCTCCCGTTGTTCTTTCTCAAAAAA
TTATTTCAGTGCAACTTAGCTTTCTGTGTATCTCCATTGCTCATCTGCCCTAGATGGTTCAGGTTGGTTGCTGTCTCT
ATTAGTGTGACAAGAGTTAATAAAATGATTAATTAAAAAGAGCCTTAAACGTCTACTTAGAAAACACTAGATAAATGCT
AAGTAGGGTGCTTTTTGGTGGATCAAGAGAGTCCAGATCACTAATATATGGATGGCGTATAAATTAAATCACTGTGTAA
GACTGCAAAATGTCAGAGAAACATTTTAATATGTTCCCCCAGCATTTGCCTTTCTGTACATATGTCTTAGAATTATAA
TGCCTACATTTTAACTATGGTTTTCTGTGGGTATATATACAAATAGATAGCAACTGATTAAAAAAAAAGATCTCAACTT
TTTTTTTTCAATTCACAAGATTGGAGTATTTGGAGATAGGGCTGTTTTTTCTCTTTTTTTCCTTTTAAAGCCATCCACA
TTTTCTTTTCTACTGCTTTCTCACTCAAAAAATGTAAGCTAGAAAAAGTTGATCTCATGGAAGTAAAAAGGAGAACAGA
GATTACTAGAGGCTGGAAACAGTAGGGAGAAGGGGAGGATAGAGAAATATTTGTTAAGAATACGAAATGACAGCTAGAT
AGGAGGAATTAAGTGGTAGTGTTCTATAGCACTATAGTATGACTATAGTTAACAACGATATATTATATATTTTCAAATA
CTTAGAGGATATTGAATAGTCCCAAAGAAATGAAAAATGTTGGAACATATGCTAATACCCTGATCTGATCACTATGCAT
TGTATGTATTGAAACATCCCTACGTACAATTATTATGTATCAATTTAAAAAATATCTAAAAATATATGTGTACCTAAGT
GTATACACCTTATATATCCTTTGATTTCCTTATGAAACACAGCATAGTTTGAGATTTAAAATGAATAAAATGGTTCTTT
ATGCTCTGTAAAATTAGAAAATCCTTCAGCTTTTAGAAGCTCTCTGTTGGTTTATTAGTTGATCACAAATTAATATGTC
CCTTTGGTTTAATCTGTATCATAAAACAAAAGTTGACTGTTCCCAAACATGTGCTTGGATAAGAGAAAGCTGTTAATAA
ATATCTATTGACTGAATGAAAGTATAAATGAATAAATATTTTTAGCCCTTAGAAATATGTGAAAAATACCTAGAAAATA
TTAGACATACCAAGGTCAATGCTAAATGTAAAATGTATTTCTAAGAAAACTCTAAGTATGCAACCATATGGATTGATTA
AAACTAGTTACTTAAAACCTCTTATGACTGTATTTTTCTTGTTTTTGAAAAATAAATGCAGTTTGCACTCTCCTTGCTT
AGAACTTACGTATTCTATTTCACAAAAGTGCATGCTTGTGTTATTAAATGTGTGTGTGTGTGTGTGTGTGTRTATACATAT
ACATATATCTTGATCCCTAATCTCAGTTAGCTCCAAAGGTGTTCTAAATATATAAATGTTATAGGTCACAGTGTGATCT
CTTAACACTATATTTTTTGGTTGAGTGTGGTGGCTCATGCCTGTAATCCCAGCACTTTGGGCGGCTGAGGYGGAAGGAT
AATTGGAGCCCAGGATTTTGAGATCAGCCAGGGCAACATAGTGAGACCCTGTCTCTACTGAAAATACAAAAAAATTATC
CAGGTGTTGTGGCACGTGCCTGTAGTCCCTGCTACTTGGGAGGCTGAGGTGGGAGGATCTCTTGAGCCTGGGAGGTCGA
GACTACAGTAAGCCAGGATTGCGCCACTGCACTCCAGCCTGGGTGACAGAGTGAGAGACCCTTTTTCAAAAAAGCCTAC
GTTTTTCACCAACACATTTCAAAATTACTTTTAAAATTATTATTGTTTTAAAGATAGGTATGTGCCAAAATTAGAACT
TTGGGTCCAAGAGCATCTCCACATTCACATAAAGAAACTTAAGTTCAGTAACTTGCTCAGGCTATAAAGTAGAAGAGTT
AGGATTTGAACCCAGGTCAGAGGGCTCCAAAGCCCTTTCACTTTCCATCAAAAACATTTGATATTTTGCCAAAAATATC
ATGACTGTTTGTCCATTKYCATTTCATATCCTTCAAACAGCTATAAAGTGTGGAGAAATGATAACTTCATAACTCACGC
TACAGCTCGCAGACACACTTAATTAGCTTAGGGACAAACAGTTGTGACATTATGAGTGGGAGTTGCAAGGCTGAGTTGA
ATGTACTGATGGGGATGTTGGTTAAAAACAAAAAGCCATTCTATTCTACATCGTGGCAATCTTTGTACTTCAAAAGTAG
TAGTATTCTGAGAYGTTTACTGTGTATTATAGAAAAATTGCTGATTTGAATCACAATTCAGCAATACTAGAGAAGGAGA
AATCTACTTTTTCTAAATTTTCTCTACAGTGAAATAAAATGCTTTTGGAATATTTACTTGAGGAATGGGTTATCTGAAT
GTTCTCACTGAAACTCATTACACCGTATAGTGAAAATCTAGTTACAGGTAGTTGAAGTGTAGGTATAGATAGTATGTGA
TTCATAATGACGCATGTATGCCATGATTTACCTCAGTCACTGGACAGTAAGAATGTGATTAAGGAAGTTTCCTCTGCAA
CATTTCAAGATAAGTTAGCTGTTTTGAGCCACACAAATATTAAACTATGCATTGTGGCCAAGTGCCTATAATGCCAAAA
GCACCTGTTTCAAATTGTGAGTAATATCTTATGTGTTACACTAYTGAAATCTCCTTGTTACAGAATATTAATACTACCT
ATTGAAAAGAGTAAGAAATAAGAGTTTCTCATTTCCACCCTTTTGGATTTATTTCATCAAATGATGTGTTGATGAATAA
TGCCCTTTCTGTAAGATGGATAACTCATGGAAAGAAAGCCATTTGGACATGGATACTCAAGATTTTAAAGAATTTAGGA
GGTGGCAGTGTGAATATCAAATAAGGTGCCACTTGTAGAGAGAGTATCTCAGAAAAGGAGCAGAGAATCATACAATAGA
AAAGTGAAAAGCTGTTTCCTGTGGTAGATAGACTCTAAATAATGATTTTAGAGACAGACATAATAAATTAATTTATTGG
TTCATTGAAGAAACATCCTGAGTTCCTATGACATGCTAGGCATTGTGCTGGTGGGGGCGAGGGTTGGGTGAGTAGTGGC
GTATGGAGATGAAAAGATGCATCAGACATGGTCCTTGTCTTCATAGAACTTTCCACAGGGTAAAACTGGAAAAACCCTG
CTGGGACAGAGTGGGCATCTATTCCGGCTTAGGCAAGCATATCTTATCCTATTGATATCTGTACAATATTATCCTTAAA
CTAGAAATACAATAATATGTTTTATTCTGACAATGAGGAATAATTTTCCATATTAAGGAATAGGTTAATCTCTAAATAG
TATGCTATTTATTTTATCTTACTTTTTCCTCTGTGTTTTTAAATATTTAACAATTTAGGTAGCATCCTAGCAGGGCATC
ACTAGAGAAATAAAATGAAGCATTTTTAAGTAAATATATTTTACAGATCATTTGGAATTGTTTCAAAAACTTCATTAAC
TTTTAATGAACCAAAAATATAGTTCATTGGAATTAAATGTTCCATGTGAAGATATTTATTTCGGAAACTACATGACTAA
ACCAATGGTAAGTTGAAGTTAAAAAAGTGACCCCAAGAGAGGGACAATGTCATATTATTATTGTTATAACCCATATATG
TTTAATAATGACCATGCAGGATGGTGCATATAGMAAATAACTAGGTAAAGTTTCTAGGAATTTTTATTCTATTTCTCTT
CTTTCAATTCTAATGTATGGGCCAACTCATCATTTTAATACAGAGCTTTGAGAGAAAATGCATAAATGTAATTTTCTGT
ATGATCACTAGATGGCGCCATGCTTCCCTTAGAATGAAGCTGCTCAGGAATTTGCAAGTGCAGTTCTGAGTATTTCACA
TAGAAACCTGGAAGATGAGACAATTGTATTTCCCATAAGGTTTTGATTCACTAATATCATCAAAACAACAATTAGCACG
TGTTACTTTGCATTCAAAAAGGGAGTAACGATTGGGTTTGTAAACAGTATATTGAAATAATCATTACTGAGGACAAAAG
TGAAGCATGCCTCTAAGAGGTAATTCGGAAGGTCTCTTTTGCTTTCCAAAAACATACTAGTAACAAGGAAACATCTTAT
ACTTGCTTGGAAAACTGGGTCCTAGTCAATGAGCTATGTCTTAAGGAATGGAAATACTGGCAAATGTGGTAAAGTTTAC
ATAGCCATTTCTGCAAACCAAGAAGATAAATTGCATTCTGCCTAGTCTTAGGCAAACAGTTGGGCCATTTACTGTTCC
ATCAAAAAAAGGATTGTCAGATCCCCAAAAGCACAAGGATGCATATAGAGTGTCCATTTAAACTTCCTGATCAAAGATA

Fig. 6.202

TACACTCGTGAAGGTGGAGTGGAAGACTTCTTTATAGGAGTATGATTCATGTTTATAAAATTGGAGACACTTAGAAAGT
TGAGTTAAAAGTGACTCAAAGGATATCTTTTCATTGCCCTTTTTATAGATGGAAAAACATGGATGTAGCTGTTTCATAC
AGCTAAGACACTAGTGCATCAAAACACAATACATTTGTGAGACATCTTGTTATGATTTCAAAGCAGTTTGTCAATAAAT
GTGTATGTTCAATGGTTACAGTTTGGGATGGTAAGACATCATCAGCTCAGAATAGTAACATCCTTCCCTTTATCTTTTT
TATAGAACTTTAAACCTGGATGCAATTTTAAGATCATATGCATCATTTTTTCTATATGGTGATTACATTCTAGATAAAT
TAATTTGTGATACACTCTGGACTTTTTRTATTACATCAAGTTGAAGTTTCCTTTTGTGGACTTAGAAACAAAAAATTTG
CAGTAATAAAAATGAAAAGAGATTATGCAAAAATAATTACTAATGACCATGTTTCTTAGGTGATGAATTTAATTGAGTG
TTGGTATTTTAAGAATACGTGCATCAAGCAAATTATAATGTAACCAAATATCCAGAGATTTGAGGAGGAATATCAGGTT
ATTATCACATTTCAGAGCTGAATTTTTCTTCTTTGGTTCATTGACTGCATTGAATCTTTGTTTTGTGGGTGATATAAAC
TTTTTCATTTCATTCCTTGCTCTAGGAGTGACTCTGGGGAATCATTAGGTACATGCTTGTTGGTTTTCCATAATAATTA
TCTCTGAGCCCTAATGGTTTCTGGATTTGGCCTCTCTTCACTTTCTCCAACTTTAGGCAGGAGTTCAGAATGGCCTTCA
GTTGCAAAGAGAAGTATAAATCCAACTTACCATCTAGTCTCTTTCTGTGTGGTCTTGGCAAATTTTTTAATCCTGGCTA
GGCATGCTGTTACTGGCAGAAATGAGGTTCTGCCTCAACTTTAGCTCCAGCCCTGCCGTTAGCCTGAAGACTTTCCAAG
ATTTAGGGAGGGTCCATGAATATCTCATCTTCAAGAGTGTGCTATAGAGTTATCGAGCAACTCAGATCTTTTAAAAATC
TTGAGTTTAGGAATCATACATTTAAATGTCAGTTCTCCTAGAAAATGAAGATTTTAATCCTTTAGAAAAAAAATCTAGGG
ACAAGGAATTCTAGCATTTCCTAAAGATTCCATCATAAGTAGTGCTTTTAATGTAAAGGGTTTCTTTGAAAAAAAATTAT
TTCTTTACTTTTTTTTTTTTTTTTCCTTGAGACAGGGTCTCCCTTTGTCACCCAGGCTGGAGTGGAGTGGTATGATCATG
GCTCCTGCAGCCTCTACTTGCTGGGCTCCAGTGATCCTCCCACCTCAGCCTCTCAAATAGCTGGGACTACGGGCTCACA
CCACCACACCTGTCTCATTTTTGTATTTTTTGTAGAGAAGGGGTTTGGACATGTTACCCAGGCTGGTCTTGAATTCTTG
GGCTCAAGTAGTCCTTCTGCCTCCATCTCCCGAAGTGTTGGGATTACAGGTGTGAGTCGTCATGCCTGGCTGTAAAATT
GTATTATATTTCTAATATGAAGAAATACTTGGTTTCTCTTTACTGTTTAGAAAGATAATTATCATGATTGTTTTCTTTA
TTAACTCCTATATGATACTTTGTATTTTTATCCCCTGCTACTCACCCCAAGCTTATTTTTATAATTAGAAAGGAATCAA
GCTAGCCAAACAGGAGTTATCCTTCCTTAAGGTAGAGAAGTTACTRTTTTTTTTCAAATGGCGATCTGCCTGCCTGAGT
TGCTATTTGGATCTCTGATGATTTCTTCCTTTGATCCCCTAACTCAAAGCAGGCAATCAAGGCTATGCTGTTAGTTGTA
ACCAGATGGAAACCTGATCTCCATTTATACTTTGCCTCTTGTATTGATAACAGGACATGAACCAGGATAGATACACTAA
CAGTATTTGACTCTGCTGCAGTTGCCAGGCTAAATAACCAGAACTCATATCTCATTCTACTCTACCTATGGAAACACTC
TGTATAATGAAAATGTGTGTTGAAAGTGTGTGGGTATATGTTGTGTGTATATGCATTAAAATTCTCATTAGCATGGGCT
GGTTGTAATAGTGCATACCTGTTATCCCAACTACTTGGGATGCTGAGGCAGGAGGATCATTTGAACCCAGAGTTCAAGG
CCAGCCTGGGTAACACAGCAAGACCGCCATCTATTTAAAAAAAAAAAGTAAAAACTCTCATGAGAATAATAATTAAAGT
AGCTATGTTGATCATTGCAGTAATTAAACCAAAATATTAATACTCATACCTGATATAGTTTTTTCCACTTTATTATAAT
TACATTTCTCTCAAAAAATTTAAGAATTAGTATATGTTTAACATATACAGGTTGAATATCTCTTATTGTAAATGCCTGG
GACCAGAAGTRTTTCAACCTTTGAATTTTTTTTTTGGATTTTGGAATACATGCATACACATAGTGAGATATCTTGGGGA
TAAGACCTTCATCTAAACACAAAATTTATTTATGTTTCGTATATRCCTTATAAACATAGGCTGAAAATAATTGTATACA
ATATTTTAAAATGCTTTCGTACGTGAAACAAAGTTTTGGCTGTGTTTTGACTATGACTTGTCACATGAGGTCAGGTGTG
GAATTTTCCACCTGTGACATCATGTCAGCACTCAAAAAGTTTTGGATTGTGGAACATTTTGCATTTTGGATTTTCAGAT
TAATGATGCTTAACCTACCTTGTGAAATAATGGAGTCCTTTATTAATAACAAAACAATAATAGATGATACTTACAGAGT
ACTTGTGTGTCAGGCTCTACTCTAAACATTTTATATGTATTAAACCAATTAATCTTCACAAAAACTCTGAATTAGATAT
ATTATTATTATTTCCATATTTTAGAGGAGAAAACTGAGAAACAAGTAATCTAGTCTGTACTCTACCATAATGCTATGTT
ACATTCTATCAACACTCCCACTGCCTCTTCTGAATTCATTGATAGTGGTGTGGTGGCATAGAGTCCACAGAGTGGAGCA
TTAATTAATTTTGCATAATGTGAAAGTAAAACTTAAGAAAATTTTAAGGAATAGACAGTGTGCAGTGTTATGGAATCAT
AACTATACAATTAAGGGGTTAAATGAAATCATGCCCAAAATGCTGTGTTTTAAATGGTGGCACTGACTGATAAAATGTA
GATTTGAGTTATTTATTGTTTCTACATTCTCAAGTGAAAAAGGAAGAAAGTAGGAATAAAATTCTGGACTATTGGGGGG
GGTGTCTTTAGTCTTGCAAAAAGTAAAAAATAGAAATAGAAGAAAGTTTTTATGGTTCATATTGTAACATCAAAATATG
GAATGAAAACTGTGGTCTCCCATGAAGTATTTCAGGTGCTGGAAGGAAATCTCCTAGACTAGGACTCTCAGCAAGTCCA
TGGTTCCTATTATGTCCAGCATGCCATAGAAAAACTCCAGAATTAGTTAAATWTTAATAATTTAATGGAGAAAACTAAT
TTTTCAAGGGGCAGCTAGTTAACTTCAGCATGAGTCAAAAAGCACTTCATCTGTCAATATTTATGTAAATATTTATTTT
GAATTATACATTTATTTAGAGTATTTATTTACATTAGAATAGAGGGAACTAAGGCCGGGCACGGTGACTCATGCCTGTA
ATCCCAGCATTTTGGGAGGCCGAGGCGGACAGATAACCTGAGGTCGGGAGTTTGAGACCAGCATGACCAACATGGAGAA
CCATGTATCTACCAAAAATACAAAATTAGCCGGGTGTGGTGGCAGATGCCTGTAATCCCAGCTACTTTTGGGAGGCTGA
GGCAGGAGAATTGCTTGAACCTGGGAGGTGGAGGTTGTGGTGAGCAGAGGTTGCAGTGAGCCAAGATCGTGCCATTGCA
CTCCAGCCTGAGCAACAAGAGCGAAACTCCATCTCAAAAATAAAGAATAAAGGGAACTAGCCATCTGATCATATTACAA
CCAAAGCCTTTTATTTTCTTCATAACCTAACTGAATGTGTCAAACAGTTTGTGATTCTGTCCTCCAAATATGCATGTAT
ATTCCAAAAGAATCTGTGACCCTCAGTAGGCCTGTTTTTAAGTCAGTGAACTAATTCTTTCTTTCTTTCTTCTTCTTCT
TCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCCTCTTCCTCTTCCT
CTTCTTCTTCTTCTTCTTCTTCTTCTTTCTTCTTCTTCTTTCTTCTTCTTCTTCTTTCTTCTTCTTCTTTCTTCTTTCT
TCTTCTTCTTCTTCTTTCTTCTTCTTCTTCTTTTTTTTTCTTGAGGCAGGGTCTCACTCTGGACTCTGTCCAGGCTGGAG
TGCAGTGGTGCAATCATGGCTCACTGCAGCCCCAAACTCCTGGACCGAAGTGATCCTCCTGCCTCAGCCTCTGAGTAGC
TGGGACTACAGGCATGGGCCACCATGTCTAGCTATTGTTTTAAATTTTGTAGAGAAAAGATCTCACTATGTTGCTCAGG
CTGGTCTTGAACTTTTGAACTCAACCAATCCTCCAGCCTTGGCCTCCCAAAGTTCTGGAGTTACAGGCATGAGCCACCA
TACCTGCTAACTAATTCTGAAAGATAAGTCATAGTATTGACCATAATAGTGATGAAAATAAGTGGAATCCCAGGAGGAA

Fig. 6.203

GCCTCATCTGCATGTGGTGAATATGTAACAGTAAAGAGGATGATCATAGTAAGGCTTTCTACTGTGCATAGCATGTTAG
CTTTTACTCTTGCTTTTACATATTCATCTCATTTAAAGTTTTTGCTCATTTTAATTATTCTATGATAGATATGACAGAG
GCAGGGAAAGTATTATCCTCTTCTCCCTTTACTCCCAATTACAGAGGAGTACCTGAATCCCACAGAATTGACATATTTC
CTCAATATCAGTTAGTCAACATCAAAGAGACTTGAACTGCTATAGTCATTATATGCAGTCTTAAGGACACACTCTCCAC
ATTTTAAGGTTTAAGGATGGATAGGATTTCCACAGAAGTATAAACAGAAAAATTGAAGACAGAGGAAAGAATACTGGAC
AAGGGCAAAAAAACAGGAAGTATGGTACAACTTGGAGAAAATGCCAGTGAGCTGCTAAGCTCAGGTACAGGATGAAGAG
AATTAGCAGGCAGATGTTGATGGAATGCCGCAGGAAGATCCATCTTGAATGGTTTCGTGGGAACATAGACTGGATGTGT
GATCTAAGAAATATAAGACTAGTGGGTTAGACTCAGCAAGGGGTAATGTGGAGCTAAGTTTGATGACTATAGATATGGA
AAGACTCAGGGACAGATGCTACAGAAATTTCAAAGTTTTGATACCATATTACACAAACTAATATGGCGCTTGAAAAAGA
GTGAGACATCTAAGATGATTCTCAGGTTCGGGTCTGAATGACTGGGAGAATAATGATCCAGGAACAGAAATAGGGAAAT
CATGAGAAGATGCTAAATTGGGAGGAGATGCTGGGTGTGATTTGCTGAGTTTGAGTACAAGCAGACCATGCAAGTAGTT
ATGTCTAACTTGGAAGCAAAGTAATGGTGTGCACCTGTAGTCCCAGATATTCTGGAGGCTGAGGTGGGAGGATCAATTG
AGCCCAGGAGGTCAAGGCTGCAGTGAGCCATGATCCCACCACTGCATTCTAGCCTGAGCGACAGAGTGAGACTCTGTCT
CAAAAAATGTAATGCAATGCAATGCAATGCAACGCAACACAGCAAAACACAACACAACACAATAAAAATAATGCCTTCA
GAACCTCCCCCCCAAAAAAAAATTCTAGGAGGGAAGTGGGGTAAGCCTAGTGAAAATTCTCAGGCTAACTGACAATGTG
TATGTTTTGCTAAATGGACTTCAGTTGGCAAATCAAATTTTTGAGTTAGACATTAATAATATTGAAATGTAATATCCAC
CCACATTGTCCATTTCATAGAATTACTCTGTTTTTGTTGTTCATTTTGACATTTCCTAAGCTGTCACTTGACCCAGACT
GACACATTATCATCTGCATGCACCTAGGCTCTGCCTTATATATGTTTACAACATGCAATGAAGCCTAGTGCCTGTAATC
AGAAAGAGGGTGCTGCAGTCCATCATGTGAAAAAAGAGCTGGACTATGAATGAGGAAACAGATTTTACTCTGACATCAA
GGCTGGCCGACAGCATCTGTCATGCCCCTAACACAATCATGCTAATTATAAGCCATCACTTTCATTCTTCTTGGAATTC
AGAAGTCAGGAGGGTTGTAGGGGCAAATTTCTAACGGGTTGTGGAATCTATCATTGCTAGGACCTTTTACAATTCAGTT
GCTTACTCTTTTTAAAATCTGCCATTCAGCAGTCTTTTTCAGTACCAGTAAGCCACGCTATGCATTCCTATGAATAAAG
TGCACAGCAACAGCATCCAAATGCAGTGACGGAACTGTATGGCTTCTCCTTGGAATAGCTTTTAAAAACCTGCTTAGGC
AGGGACACTTTATTGCTTGCTGAAAAATTCCAAAAGATTTGTGACTATGTTTAATAAATTATCAAGAACTATATAGAAT
TCCTTAGACCTTTTTTCTAAAATAAACTTTTGGAGATTTTTTGTTTGTTGGTTGTTACTATTATTTTTAGAGAAAGGAC
AATTAAATTATCTTCAGATCCCAGGGAATGGTAGAATTAGTCTTTTTGGCACTGATAGTAAGGTAGGTCATGTCTTAGT
CCATTTGGACTGTTACAATAAAATATCATAAACTCTGTAGCATGGCTGGGCACAGTGGTTCACGGCTGTAATCTCAGCA
CTTTGGAAGGCCGAGGCCGGTGGATCACCTGAGGTCAGGAGTTCGAGACCAGCCTGGGCAACATGGCGAAACCCCATCT
CTACTAAAAATACAATAATTAGCCGGGCATGGTGGCGCATGCCTGTAGTCCCAGCTACTCGGGAGTCTGAGGCAGGAGA
ATCGCTTGAACCCAGGAGGCAGAGCTTGCAGTGAGCAGAGATTGTCCCACTGCACTCCAGCCTGGCCGACAGAGGGAGA
CTCTGTCTCAAAAACAAACAAAAAAACTGGGTAGCTTATAAACAATAGAAATTTATTTCTCATAGTGCTGGAGGCTGGGG
AGTCCAAAGTCAGCATGCTACAGATTTGGTGTCTGGTGAGGGCCAGGTTTCTGGTTCATTAATGGTGTCTTCTTGCTGT
GTCCTCACTTGGAAGAAGGGGCAAGGGAGCTATAACTTGGAAGAAGGGGCCTCTTTAATATGTGCATTAATCCTGTTCA
CAAGGCTGGAGGCCTAATGACCTAATTACCTCCCAAAGGCCCTACCTCCTAACACTATTGCATTGGTGATTAGATTTCA
ACATTTGAATTTTGGGAGGGTGCCAATGTTCAGATCATAGCTGGTCATTTCAGCTTATTTGTACTCTCTAAGTTATGCT
GCAATAATTGTTGGCTTCTGTACATGGGCAATATGGAAATTAAAGCAATCATAACATTTTGGTAGAGGACCTGAGGAGA
GATTATTCTGAATGTGATGAAGTTATAGTCTTTTTCCTCAGGTGGATTAGATCACTTTTTGGATAGAAATTTTATGTTG
GGAAAAATAAAAATGGTTCAGTGACCTGAGGCAGAAAAAGTCTGTTCACAGGAATATAAGATAATTACTCCATCAACTC
ACAGTTGTTTGGAATGTCAGGATCAATAATAGTCCTCAGAACATTGTAACCTTACTCCAGCAACTATGCTAACATAAAG
CAGAGAAGTCTGAAGTCTGTCCATTAGTATTGGTGACAAGGTCATGGTTGCTTTTAAACTTTGCTTGCCAAAATACCTG
GAGGGAACTCAATGTGCATACTCAAGTTTCTGCTGTGGCAAATTGACTGTTGCTACCCCAGGAGACCCTAGGAAGACAA
TCAGTTCATGTCTGACTGGAGACATTGCAACTTTATTTGTATGAACTATTTGGGTCAAATTTCAGGGGGACATGTCACT
ACAGAGGGGCAGAGGGTCATGATAATGAAAAGAATCATTACGTTATATTGGTAATTAGATGTATGACTCTACAAACTTG
TTTTTCCTTGGGTGTTAGTAACATTCTTTTTGGAGATAGATGGCATTTTACAAAGTCTATCCACAGAAAACTGGAAGTA
TCTAAAGATAATGATAATGACGAGAATATATTCATTGTAATCTGGCATACAGAATTTTCTCTGCCATTTAAGAAGCTGA
ATTTCTTTTAAGTATAGAAAGGTTAGACTTATCAACCTTATTGCAGATACTATTTATGTTTTTCATGTTTTCTCTCTG
TCCTTAAATATTTTCTGAGATTTAGGCACTGAGCTCTCTGCTAGACATTTTCAAATTTTATCTTTTAAAAAATCAGAAA
ACCTCTCTTTATGAATGAAATTTTTCACAAAACTCTGATATATAAAACAGGCAAAATGAAACCATTATGGCAGGAATGA
GTCTGGGATTTGCCTATTTATTTTTCTTTCTTCTTTCTCCTGTCTGCTAAATTTTCTACAAGCAAGGCAAGCAGTTCAT
GAATCAACTGTTGACTACTTCTGAAACCTAAAATGAAATAATATATATGAAAGCTGTTATTCAGTGATTTATACTTATC
AAAATATACTTGTCAAAATATTAACTGATTTGTGTTTGTCAAAATAAATATATTCATACATAGCACCTTGGTAAATCAC
AGATCTAGTTGTATTGTAGGTGCCTAGACCAACATGACAACTTGATTATATGGCTTGAGATATTTACATCACTCTTACC
ACAAAAACGTCAATAAACAGAGCTTATTAATCTTTTGAGGAGGAGGAAATGAAGGTGTAGGAAAGCATGTATGAAGTTC
TACAGCATTTGTATACATCCATCTTTGGGAACTGAGTGAGCAAAAAAGAATAAAATGTTGATATTAGCATGAAAACTCT
CACTAACTCTATAAATTTCTTGTCAATATTAGGCCTGTTTCTAAAGCCAATCAGAATGAAGGAAGAGCTTTTTAAAAAT
AGGCAAATGTTGGTTACATTGGCTTCAATTTTAAAACAAAGTTCTACATTCTCTTCAGAATGCGAAGGAGGTTGAAAAA
GGAGGCATTTCCTGCATATATTTTGAGATGAGACGAGGGTGAGAAAAGGAGTAGAGCTGAATGTTATGTTATTCTGTTA
ACCTTTGTCAGGCCCATCAGGCTTTATATGGTTCAAATTTCTGCTGTATATTTTGATACTTTCTGTCTCCACAGCAGTT
ACTCAGGAATATATCCCAATAATGACACTGAAAATGCAGTGAATTTATAAATAGATCCCGCTGCTGCATAGATTCCATT
ATTTAGAAAATTATACAGSGTTCTGTAGGAGGTTGAACATACAGTAAAATAGTTCATTTGCTTAGAAACAATTATTATA

Fig. 6.204

ATTGTTATTATAAAATCTAATAGATTATTAGAAATATCACAATATAATCAAGCAAGCATCAGACTAAATAAAATGATTA
TTTAATATTTGCTTCATATGATAAAGAAAAACTTAAAATTGATTTCTATTTGAAAAATATCAACAGAGGCTGGGCACG
ATGGCTCATGCCTGTTATCCCAGAACTTTGGGAGGCTGAGGCAAGCGGATCACCTGAWGTCAGGAGTTTGAGACCAGCC
TGGCCAACACAGTGACACCCCATCTCTACTGAAAAAAAAAATACAAAAATTAGCCAGGTGTGGTGGCAGGCACCTGTAA
TCCCAGCTACTCTGGAGGCTGAGGCAGGAGAGTTGCATGAACCCAGGAGGYAGAGGTCGCAGTGAGGCAAGATCACGCC
AATGTACTCCAGCCTTGGAGACAGAGTGAGACTCCATCTCAAAGGAAAAAAAAAACAAAGAAAAATATCAGCAGAAATA
AGTGAGTTGAGTAATTTCTAAATCTTATTTCCTATGTAAGTGGTTAAGAAATAATTAACTTTTGTTCTAGAAGTATTAA
GGAGACAAATTGCAAAATTTAATGTGAAGCCTTGGCTCACAATAAATACTTTCTTTAAACTTAGGATATATTTAAAGTG
GAATAATATTTTCCAACTTAAAATGTAACCATTTATTTTTTTCTTTAATGTGTTTGTGTATACATCTCCTTCTTTGTCA
AAGGTTTGAGTAGAATTAGAAATAGCTGCAATTTACAAAACTCTATTTTGAAAGGAAGAAAATTAATAATAAATAGCAG
AAGTAAAAGTTATCTTTCTGGAATCTAGGACTCTCACCCACTCTCATCTTCAATATTTACCCCATTGTTTCACATATGG
AATATTATAAAATTAAAATATAAGAGAACGGATATGTTATTATTCAAATTATTTTCATTGAGGGTGGTTTGCCCAGTTT
CTTAGAAGCAATTAAAAGGAGAGGATAAGGTGGTTTTCTTAAAATAGTGCTTTCTTTCTGCTGAATTTATGTAACTTTT
TTAAGAATGGCAATCTAAGTGTACAAATGATGTTTAATTCTCATGAGATTTCATTTTAAACCTTGCTTTAGAGTAAACT
TTATGAGTAATAAGATTATACGTGTGGGAAACTGAAACTAAAAGGATTCAAATGGTTTTGACAAACAACAGATATTCAG
GGTCAGTGCAAATAAGGTTACAGATAATCACTCCATCTGCTCCATTGTCAGCAAAAAATGAGGCCCAGGTGTTGCAGTAT
ACCTTGTCCTTTCTCCTGAATTGTGACCATTGACAAATAAGATTTTCAAAGAGAAGTCTGAATTCCTTAGGGTTTAGCC
TGAGCTCTTGTAAGAGTTTCTTTCCAGCCAAAGTATTTTCTTGTTTTCCTGTCAATTCAATGGGTTAGACCATTCCATC
CATTAGAAGAAAGTAGAGGAAATGGCTCAACCTTGCCCAGAGTACAGCTGGTTGGAACTCTGACAACGGAACTGTGGCC
CAGGGTAAAGAGCAAGAGGCTGGGGGAAGCACGTAATGCTTCTTAAAGCCTTTGATCTAAAATGACAGACTGTCATCTC
CACTCACATTCCATTAGCCCAAGCAAGTTTTGTGGCTAACCAGACAATGGGTCTCAGCAATATATCCCCCCTCCCAGAA
CGCCTGAACATTCAAGTGGCAAAAGAGTGAATTGTTGAGAACAATAATATAGTCTATAATAGCATATAATGTTCATAAA
ATTAGCACCCCAGGCAAACAGGACAGAATGCCTATCCCCAGCCACAGCTTTATCCTGGCCTACAACGCTCATTTATACT
TTCTTTCCTGTGTGAAATGAACTACACTTAGTTTATTTTAACCTGATTTTTACAAACCCATAAAGAATGCAAGAGATGC
AGTGGGCCAGGAAGAAGTGAGAATGTTGCCCTATGTGTGATTTTTTCTAGAATCTGTCTAAGTTCTGCTTTATTCCTGG
ATATCTTGATATGGAAAATTAATAGGATTGCATGGTAACTTCCTTATACACAAGTTTATTTACCTAATTTAGCTCAGGA
GTATGACTCAATTACTAGCAACCTAAACATGCAATAATGAAGGGAATCTCCATGTTGCTTATGCAAACATCTAGAGTCA
TATGTCACTTTGTAAGTAGACAAAATGTAGGGCATGTGGGCTGGACATGTCAACATGCTGCTGACTTTATCTGTCATTA
ATTTTTGTTGTGTAAATTAGCATCCTAATGACACACCCCCACTGTATTCATTCTGTGCCCTGTCTCGCCCCTTAACTTG
GAGCAGGTAATGGAGTTTTTAAACATCATTTGATAATTTGCCCTCTTCAGAAAGTAATACTAAGGAAAAGCTATTTAAA
GTGAGCAGAATTCCTTTTATCTGTTGATTTAGAAATATTATTTATATTGCCAGAAATTTAAAATGTTCAACATGTTTAT
AGTTATTAAAACTTTGTAAAAGTAAAGTATGTTAAATCTTCAGGAGTATCACTGGAGGAGCTAGATGACAAAATATATA
TATATATATATATATATATAATATTATCATGAAAATGCAGTGCTGGCAAACTGCTCCTGGGATTATAAATATATCAGTA
AAACCACCCTTTCTCCTGTATCCTTTCAGCATTAGCCATAAAATAGACTGGCCAGTAGGGGTTACTCTTGGCATTATGA
TCTAAGAGTGGTAGATTAGAGTTTGAAGACATAATGAGTGGTATTTTTAAAAATAGCTATTATCGTTGTGAATTTAGGT
GCAATATTCAGAATTCAGAATTGGTGATAACTTGCTTTGAGCACTGTTTCAGCAGCTTTTATCCTATTCATATGACTGT
CAGACATATTCCAGGAACTATTTTACTTAGCCTTGTTGATTGTCCCTCATTAAATAAAATCCACAGGTCAAAATTGTAA
AGTAGCCTTTTAGTTCAATTTGGCATCTTTTTTTCCTGGGTGATATTCTCAGTCCCAGGGGTTTGAATTCCAGACATCC
TTGAAAACAAAGCCTTATATGAATGTAGTCAGAACTAACTCTTTAAAAGGCAAAAGCACAACCACATTCAGTTACCCTA
AAGTAACTGTAGTCAGGTGGCTCTTCAATTTTAGAAAATAAATTACTTTCAAAAAGAAGAAATTAGAAAAGGGAGGAAA
AAAATAATGAAGCCTCATGGACATTTGTTTTTGAGAGAGAAAAAATAAATAAAAGGAAGTGGTTTTAAATATTGGTTTC
ATAAAAACAAAACTTAGAAAAGCTTTTTGTCTGAAGCCCAAATGGTTACAAATGAGCTCTGCTTACTAAACATGGGGCA
GAAAGAGTTCATTAGAATAAAATACTATTACCTTCAGAAGAAATATGTATTACCAAGGGATGAAATGCAAAAGTTACTA
ATTCAATATTTATTTATTTATTTATTTATTTATTTTGGCGACAGAGTGAGACTCTGTTGCCCAGGCTGGAGTGCAGTGC
TATTATCTTGACTCAATGCAGCCAGCCTCTGCCTTCTGGGTTCAAGTGATTCTTGTACCTTAGCCTCGTGAGTAGCTGA
GTCTACAGGTGTATGCCACCACACTTGACTAATTTTTGCATTTTCAGTAGAGATGGGGCCTCGCCATGTTGCCCAGGTG
AGTCTCAAACTCCTGAGTTCAAGCAATCCACCCATCTCGGCCTCCCCAAGTGGTAAGATTGCAGGCATGAGCTACCATG
CCCGGCCTACTTCAATATTTATTTTTTAATAAATCAAGTTTGTTATGAGAGAGTTGTCAGAGAATAGGAATCTTCTAAC
TGCTGGTATCTTGATGCATTCAGAGCTCAAGGATGTGTGGTGTGGTTCAGACCATTTCGTGCACACTGTAGCAGAAGGA
TTGCCCTTTGATGGCTGGGCAAGGGAACATTATGATAGATGAGTTATCAAAATATTGCTAAAATTCTTTAGGCAGTTTG
ATATAGATGTTACTGTAGCTGGACACTGTCAGAGAAAGGAGATAGCTGTAACAGAGTACCAAATGAAAAACATTTTTGA
ATAGACTGTCCTTAAGACTTCTTACCTACGAAGACTCCTAATCTCTTCTTATGACATAATTATCGGAAAGGCCTGGAGG
CCACACCTTGAGAAGAAAAGCACTTATCAGTTGTGATTTTCATTTTCTTCACAGTTTTCTCCACTCAGCTAGCTTACAG
AGGAAACCAAAATGCAGTTGGTTGTTTCTCTTTACTAACACTCAGTTCCTAAGTGCTTAGCTTTAGAAGTTTTTTCTGC
CTGTTTACTTCCACTTCTTGTGTGACATAACAATATTTTAGGGTTTTATTTTTCTTTTCAAAATTCTTCTGGTCTTTGG
AAAGAAAATTAAGACACTATTTACTCTATGTTTGCTGATGCAGAACCAGTAAGTTTGTTCACCCACCCAAGTGATTCAT
TCTAAGCAAATTCTCCCATTAGGCATTTGTTGMAAATCTGCAAAAGTTGCTTTTATTTACTGATTCAACATATCCCTTC
CCAGTATAAGGATCTCCTTTGACGGTGAAAATCTCCTTGGATTGCATAGGTTTTCATTGTACAGAGAAGGCTTGACCTT
AAAAATTTAAGTYGCATTAAAATTTCTTTTATGTTTTAGAGAGACAGAGGCACTCTGTTGCCCAGACTGGAGTGCAGTG
GTGCAGTCATAGCTCACCGTACCCTCAAACCCCTGGGATCAAGTGATTCTCCCACCTCAGCCTCCTAAAGCATTGGCAT

Fig. 6.205

TACAGATGTGAGCCACCTGCTTGGCTGAAACTTTTCTTGAAACACACACACACACACACGAACACTCACACACACTTTT
TTATTTATAAAGATCTCAACCAACTTTTTAAACCATGCAATAAAGGAATATCTTTGGCATTGGCAATGTATATTTGTTG
ACTGCTGGAGTCCTTTGGGCAACATCAAACACCCAATTGCTCATTTTAAAATCTGGCTTTCCACGCCTGTAATTCCAGC
ACTTTGGGAGGCCGAGGCAGGCGGATCACCAGGTCAGGAGATCGAGACCATCCTGGCTGACACGGTGAAACCCCATCTC
TACTAAAAATACAAAAAATTAGCTGGGCGCAGTGGCGGGCGCCTGCAGTCCCAGCTACTCCAGAGGCTGAGGCAGGAGA
ATGGCGTGAACCCAGAAGGCAGAGCTTGCAGTGAGCCGACATCGTGCCACTGCACTCCAGCTGGGGTGACAGAGCGAGA
CTCCGTCTCAAAAAAAAAAAAAATCTGGCTCTCCATTTGGGTTCTTAGGTAGATGGAATAGAGTTTCCAGACTTGAGG
GTTTTAATTCAGCAACCCAGGATCAACACTTTCTAGGTGTGAGACTTTAGTAAATAATATACTCAGAGATTCATGGTTT
TTTTTAATCTATAAGTTGCAGAAAATAATATCACTATCATGCTTTTTAAAGGATTAAATAAGATATATTTAAAAATT
TGTTATCCTTATACCTGGCATAGAGTAAGCGAACAGTAAATGGTATATTTGTAATTATTCTTTTTTACGTTGCTTTCTA
CTTAATATGCGTTTATTAAGCTTCACCTTAAGTATAATTTAGCAAAGGATTATTTCAGTTTTCCCTTAAACCAGTTTAT
AAGTTTACATAGGGAGGTTAAAGCCAACAGGAATTTTTATGTAATAAGGAAATTCAAATATTTCAGTATCTGTGATAAG
AGTTGTGTTAATTTGCAGAGGAATAACACAAAACATTGATTAAATTTGGATTGCTAAATGTTAAACAGTGTTTGTACAA
TAAAAGTGTGATTCAGAAAAAGCCTTATTATAACATGCGGAATGTATTAGCACTCTTTGGAGACTTACTATCTTTTAAT
TTATTTTATTAAGCTGCTGTTGTGAGCTAACTAATAACATAAGTGTGAACTAGTTTGAAGAAGAATTGCGATTTTATTG
AATAATATTCTGCAAGAATTAAATATCAATAGGTTAGCAATATCTCCTCATTGAGTTAAAGTATATAGATTGTATACAT
GTTCTATGTATATACTATATATAAATGTTTAGATAGTATATATGAATGGCATAATTACTATAAGCTTACAGGGAAATAT
GCAGAGTTGCTGTTATTTTTAGAAAGTAAATGATGACATTTATTTTTTATCTAAAACTTTAATCTGTTCAGTGATTTAG
ATTCATTTGAGCTCTAATGATTTGGAGAGTAAGGCACAGGCATAGCCTTAATTTATTGGTGATGAAAAAAATCTACTTA
TTGGCAAGATGGGGGAAAAAATCACAAGCCTTGTATGGAATTGTATGATTCTGCAGAGTTGCAATGGTGTTAACAATTG
TGACAAGTTACACTTTCTGAGACAATCTTCAATTTTAGCAATTAAAATAGCAAAGAATTATTATTTATAACAGTATTCA
TAACATAGCAAATGGTCATATTCCTTATAGAGACAGCACTTCCGAGTAGTCTTTATTTTGTTTTTCAAATTTGTCCTTT
CAATATCTCAAAATATCTTGTGTTGCAATTACATTTCCAAGTATATATTTGGTTGGGATGAAAATAGCTGTAATAGTAG
TAGTAGCTACCATTTATTGAATTCTTGCCACGTGCCTCATATTTTATGTGGTGTATTTGATCTTAGGCCTTAGGACAAC
TGTAAAAGGCAGGTATTGTAGAAGACAATGTTTTCTGAGAGACTGAAATGACAAATTAGAAAAAAAGTTAAAGACTTCT
TGGAAATGCTATCTCTATAAGGAATATGACCATTTGCTATGTTAATACTGTTATGAATAATAATTATTTGCTATTGTAA
TTGCTAAAACTGAAGAGTGTCTCAGAAAGTATAATTTATTTGTCACAATTGCAACTCTGCAGAATCACCCAATTCCATA
CAAGACTTGTGATTTTTTCCCCTAACTTGCCAATAAGTATTATTACCATAATAAATATGCTGACGTTTCAAAGTTTAAG
AAACTTCCTACAGTTCTCACACGTAGTGGTGACAATATGGCTAAGGGGTTAGGAATGCCCACATCCTCCTATGCTGCAT
CCTGCCTGTGGTTTAGATTTGAGATAGGGACCCCTACTTTCTTTCCCCTAAGAGCAGATCTGTGTCATTGGCTATAACT
GCTTTCTGGTCAGCCACATGACACGTGGACTTAACAGATGGTTTCTAATAAGATTGAAAGCATATCTTGACTCCACTTA
CCTGGCCAGCACTGGAGAAAGGAAGATTAAGAGAGATTTGGATGAGTGTCCTTGTCACATAACTTCCCCTCCCTAGAAA
ACTTGGTCCAATACGTTGTAATCTGGTGGTGCAAACTCACAACTTTTCTTCCCTTCTGTGAGTGTGTATATATGTGAGT
TTATTGTATGTGTGTGTAAGGTGTGAATGTGTATGTGAAGTCTGTGTGTGATGTGTGTATATTTGAATGTCCTGTGCAT
GAGTTTTTTTGTGACTGAAGTGTGTGTGAGGTGTCTGTATGTGGGATGTGTGTGTCTGTGAGGTGATTGTGTATGAGGA
ATGTACATCTGTGTCTGTGGTATATAGAAAACGTGTGTGTGGTGTATGCACTTGCTGTGTCTGCATATGCATGAATTGA
GTATGTGACTTGAGTATTGTGTGTGTAGGAGGAGGGGGGAAGTAAAAAGGCAAGGTGACAGTAGAGACTGGACAAATGA
ACATAGCCGGGCACTATTCCTTTAACTCCTAGAACAGACATAACTTGAAGTGATCTAGACTTGAACTTTGGAGTATGAA
GTTCCAGCCAGCTGTGTAACTATCTATTTAATATTTGGAAGCGCTTAGCCTGCTTAAATCTTGATTTTATCATTTCTAT
TAGAGAAGTTTTAACTTAAATGCTCTAAGGTGGGGGTGTCCAAGGGAGAAAATACAGTCATGGGTTCTTAGTTTCTGTT
TCTGGTTGGGCCAGAAAAGCTCCTTCCTCATCCCTCTTTTCCACTTATCAACAGAGACAGAAGCTAAAAACCATGGCTT
CTGGCTGCTAAAGCCTAAAATAAAACAAAACAGAACAAACTCATCAACAATAACAGCAAAATAAAGCAGGTTGGAAATG
ACTGCTCTAAGGGTGAAGTGAATATGTTCAGGTTGGAGTTACTGATAAGTTGTAAACAATTACAAGGATGTAAAATATT
GCATATTTTTATTAGTGGCATTACTTTTCCAACATTACATTTTATATTGAAGTTCCAGAACAACAAAAAAACACTAAAG
GTATTGCAGTGAGGAACTTATCAGTAAGTGCTTCTACCTTCAAGGAATTAAGTTAATTTTTATTGGCAATATTTGGAAC
ATTGTATCAAGAAGAAAGACTAGCTAACGAATCTCTTTTGCACATCAAGCTCTTACAGTGTTAATTCATTAAACAACTA
AGACAATTTTAAGTAGGAGCTTTGGTCTAAGATGTGTGGCCGCAAACTGAACCAATACTGACAGAATTTGGCATTAATT
TTTTTTTCAGAGAATTTTTTTTTTAATATATGGCAATGGTTGAAAAAAAACATAGAATATTGTAGTTCCTCAAATTGTT
AAACACAGAGTTATATGATCCAGCAATTCTACTTCTAGGTATATACCCAAAAGAATTGAAAATACATAGACAAATGTTC
ACAGCAACATTATTCTTAATAGCCAAAAAGTGGAAACAATCCAAATAGCCATCAGCTGATGGATAAACAAATGTGGTAT
ATTCATACAATGGAATATTATTCAACAATAAAGAATTCAGTATCAATGCATGCTATTACATGTATAAACCTTGAAAACA
TTATGCTAAATGAAAGAAGCCGGAATGACATAATTTCATGATTCCATTTAAGTGAAATGTCCACTATAGACAAGTCTAT
AGTGGATTAATGATTGCCTAGGGTTGGAGGGGGTATGGGGAATTGAAGATTGAGGGTCAAAGGGTTTGGGGGGTGTACT
GAAAATATTCTAAATTGTGTTAATGGAGGCACAACTCTGTGAATGCACTAATGTCACTGAATTGTACATTTTAAACAGG
CAGATTGTGTGGTATTTCAGTTGCATCTCTATAAAGGTGTTAAAACTAAATATAGAACAATTTTCCTAAGTAGTGGCCC
CTCCTCATTTATTGGACCAATAGTTTGGGAGGAACCAGTCATGACCTTCCTGATACAAATCAACACCTACAGATAGGAT
GGGAGGCAATTGTGCTAACAAAGTACCTCAAACCACAAAGTCTGTCAGTAAACTGATGCTTTTGTCAAGGATGAATGAC
CAGGGGCAGGTAATAGGTGAGCAACTCTCAACTCTTTTGTATATGGTACTATAGTCTGGAACTAGCAAGTACTGAAAAA
CGCTAGATGATAAAAGTCATTGTTATTTTATTCTTCCCTCTCCCTTCCTCCCCTCCCCTGTGCTCCCTTTCCTCTTCCC
ATTTTATTTATTTATTTGAGACTTGGTCTGGCTCTGTTGCCCAAGCTGAGTTCAGTAGCAGTATCTCAGCTCACTGCAA

Fig. 6.206

CCTCCGCCTCATGGGCTTAAGCCATTCTCACACCTCAGCCTCCAGAGTAGCTGGGAATACAAGTGCATGGCACCATGCC
TGGCTAATTTTTACATATTTTGTAGAGACGGTGTTCCACCAGGTTGTGCAGGCTGGGCTTGAACTCCTGGGCTTAAGGG
ATCTGCAGGCCTCACCCTCCCAAAGTGCTAGGATTATAGGGGTGAGCCACCACACCTGGCCTCCCCTCCCTTTTTCCCC
TCCCCTCCCACCCTTCTCCTCTCCCCTTCTCTCTCTTCCCTTCTTCTTCTTTCCCCCTTTTCCTCTTCCTTCTTCCCTC
CTSTCTTTCCCTTTCCACTCTTTTCTCCTTCCCCACTCATAAATAGATATTATAATGAATTAATTTAGAATTATAGTTA
AGCATACATTTGAAGTAATTGTTCCAATTTCATAATTTTGAAGTATTTTCTGAGAATAAACTGGGCAAATGCAGAATTG
GGACAAATCCTATGTGCAATAATTGCTAATAGGAAGTGTTCTGAAGTATGAATTCTCTCCTCCTTTCTTGTTTGACTTG
TCACTGAATCTCCAGTCCTACAGAGTACTATGTCCTGCTTATTGTTTATTTATACCACACCCCACTTCTACGTATAAAC
ATCACTTTCACTACGGTGGATTCAAATGATCTCTTAGGAATTTAGTTACATTACAGTCTCACATAAAATTACTGCCCTT
AAAAACATTTGTTTGCTGGGCAGGGAGTGGCGAAACCCCATCTCTACTAAAAATACAAAAATTAGCCAGGCGTGGTGGC
GGGCGCCTGTAGTCCCAGCTACTCTGGAGGCTAAGGCATAATTGCTTTAACCTGGGAGGTGCAGCTTGCAGTGAGCAGA
GATTGTGCCACTGCACTCCAGCCTTGGCAACAGAGTGAAACTCTGTCTAAAAAAAAAAAAAAAAAATTTTTTTTTTTGCT
AACATTATTTGAAGAATAGTCAGTTCAGTATGCATCTATGTAGACCTAACCAATAGTTGTATTTTACAAGTTTCAGTTT
TGAAATGTTGGATGATATCTTTCAGTTTAAAAAATTAGTATTTCTATAAAGTGTCTTTTTTTGGATGGAAATGTTTCTG
GAATGTGACACTTAAATTTTAATTACTATTATTAAATATCAATGGATTTGTTTTGCATAACCAAACAGTTGGATAAGTT
CAGTTTATGTGCTGTGCAATACTAAGATATTTACTTGGCATGGAGAGAATCACTGGCTTACTAAATAAAAGAATTCAGC
ATTTTGTTTGTCAATCCTATGTTAATTGCATTTATATTTCTGACAGTTTCCTTGATGGAATTAAAAAAAAAAAACATGC
AATAAGATCTGAATTGAGTGTTGAAATGAGTGTTTCCTGAGCTCCAATTAGTGAAAGTATTGAGATTTGAAGAATGGTT
GAGGAGACAAGGTTTTATAATTGCCCTTCTGGGAAAAAGAATGAGTAAACAATAAAGTCTTGAGATCTCTCAAACAAAT
ATACAGTCATAAGGAAAGTTTAAAAGCCACAGTGAAATGCACACCTCTTAATTATGTTAACATTGATATCTATTTTAAA
TTGATATCAATATTAGCTGTGAAAGTTTCGTATATTTTGCAGGGACAAATTCTCTTAGTGTACTCCAAATGCTTATTGT
TACACATCCTGAGCACACAACGCAAACATATTGGGCAAGCAAAGAATCTAGGCTGATATGTGTGAATGCTTATGTGGCA
TTCTATCAAAGGAGATAGATGTACATAAGGGGAATTATGGAGAAGTGAAAATTTGTCTAAGGTTCATTTTTTCAGTAGC
TTAATTTTAATAGTAAACTCTTTTAAGGAATGAATGGCCACAGGCAGAGACTAATGGTGTACTTTCAGTGTTCTCAGTG
AGTGCTTCACAGATTAGGTTTCCAAGAGAAGAAGATTGCCTCTGAGGAAGAAGAGATGGGGTAGCAAGAGGCATATATG
AGACCGTTCTTGGGACCAACACCTATGGAGGGGAGGGAAGAAGGCAGAATTATGGGACCAGATAGAAGAAGTTGGTCTG
CAATGCAGTCTTGAGGAAGGCCTCAGCAGAGCCAATAGACAGTTCCGAAGCTGGCATGCCCTTGAGAGTTGTCCTAAAT
TCGGGTGAGAGGGTTAGGCCTTTATATCCTTGGTCACTTGATAGTAGATGCTGGAACAAAATGGTGCTCTTTAGCTAAG
GCAATTTACAGAGGGCTGACAGCTGAGAGCACTTGTAGAATCTAGGAAAATGAGTCTTTCATTCTTGAAGGGGAATCTT
CACATCATCCACTACAAATGGTGCTATATTTTGGAACCAGCAGACACTGAGAAATGCCAGGTGGATAGAATCCTTCCTT
CTTTTATTCTATCTTTTTTTCTTTCTTTCTGTCTCCTAATCTAGTGCTTCTCCAAAAATACTTTTAAGAATTAGAATTA
GGCCATTAGTTATTATAAGGAAGGAAGGGAAATAATCATTTTCATAAAACTCAGCAATTCTTTTAATGTCAAGATATGG
ATTATTATTACACTCAACAATTATAATTATTAATATTTTCCACGGAAAAGTTTCATATATTGAATGACCCAAGTACTCC
ATGTGACCTTCCCTGTCTATGTAAGCCTAGCATTCTGTCAGCCAAATAAAATTTTGGAAGGAAGGTCAGATAAAATTAT
TTTTTCACTCGGTGTTAAAGAAAAGAAAAAATAAAGAACATTTATTGAGCATGCACTAAATATGACATAAAAGATCTTT
GTTTTCTGTATTAGAGGTTGAGAAAGAATGAAACAGTCTATTGATTTGAAAAGCTTTGCTCTCATTTAGCAATTATTAT
TATTATTATTATTATTATTATTATTATTATTATTATTATTGTTGAGACAGAGTCTCACTCTGTTGCCCAGGCTGGAGTG
CAGTGGCGCGATCTCGGCTCACTGCAAGCTCCGCCTCCTGGGTTCACGCCATTCTCCTGCCTCAGCCTCCCGAGTAGCT
GGGACTACAGGCTCCTGCCACCACGCCAGGCTAATTTTTTTGTATTTTTAGTAGAGATGGGGTTTCACTATGTTGGCCA
GGATGGTCTCGATCTCCTGACCTCGTGATCCGCCCACCTCGGCCTCCCAAAGTGCTGAGATTACAGGCGTGAGCCACCG
CGCCCGGCCAACAATTATTTTTATAAAATAAAAGTTTATTAATGAATTTATACAAATAGCACTTTATAAAAACTACAAC
ACATTCATTTGGGCTGGGCTGTTGCCTGGTTAGTCACATTTTTTCTTCTTTATTTAGCTATTGCACAGCTTCTGAGGCA
ACCACAAAAACATCAAATTATGGAGAAGTGAGTGCATAGATATATGAAATCAACATTTCAAATTGGTAATAGAATGACC
TTACTTATTAAGTAGTGATCTTTTATCAAGCTGCTACAATAAAATCGACCATAACATTAAACATGGTAGATGTTACTAA
CCAGAAATCTTAGGTATTTAAAGTTATGTTTACTTATTTTTTTTAATAAGACTTGGAAGTGTCACTTAAATCACACTTA
AGAATGGATATTGGCTAAAGGCTGCTGAGTCTTTTAAGATTCCTGTGAATTTTTTTCAGATTGTTCCTCAGTCAATTCA
GGATACTTGTCATTGCTGGCTATACAGCAGAGTGCAGAGTTAGCCCTTGCAGACACACAAAGATAACTCAAGGCACTGA
TTTCTGCATCTTCAGCCTCCTCATTTCATTAACTATTAAAATTAATTCCCTGTAGAGATAATTTGCATCAATCAACAGA
ATAGAAGAATTAGAAGAGCTTCTGAGGCTTTTCTATGACTAAAAGAGCAATTCTTTTATTGACTACCATAAACATTAGA
TTTACTAAAGGAAAAGGTGTTTTAAATTGAACCACCCCTCTAATTTATTCATCTTAGTTCTGAAAACATGTAGGTAAG
AGTTAATCATGTTACTGAATCTAATTTAAAAAGTGAGAGGGAAAGTACTGAATATTTTTCCTCTTTGAAATTACATGTT
GTTTGCAATATTAGCCTGCCTGTATTTTTCATGTAAACCTTTTGTACATTGAAAACAAATTCAAAATAAAGAACGTTTG
TTTTCAGGCTCAGACCTTAAGAACTGATGGTCTTTTCTTTTACTTCTACACAAAAGTCTAAGCAGTTCTGAAGAAACAC
TACAGTGACATTGGGTCATTGCTAAAAAAAAAAAAAAAAAAAAAAAAAAAAGGTTCACAAACTATCAACATTTTAACAAT
CTAATAGTTGATTGTTGTTTCCCAAATTGGTGATTTTGAATGATTATTTTATGTAGAATGGAACTGTGTCTTTTTCTTC
ATTCATGCAACAAACATTTCCTGATGGATACCAAGCAACGGTGACAGGTAAGCATGCCATCCTAGATCAGTGTTATATA
ACTCCCAAGCTTCAGTGAAGGCCTCATTTTTGTTATTACAAACTGCCTCTCTGGGACCTCATGAAGGTACTATTCCTGT
TTCGGGAATAGGTCTATCCATCCTTGTCTTTTTGTTTCCTGTCTTGATTCTACAATCTCCCCTTTGGCCATTACCATCT
CAAAATCCTGCTTCCCAAGGTAATCCGTCTAGCTTTTCTAATCTTCTGGCTTCCCATTACTCATTTCAATTCCTTCTTC
TGGCTCCCTGTTGCTTTCCTAACCAATTTCAATTACTTATCCTTATCTTGAAGGCCATTCACCACTCTGCCCTGCTGAC

Fig. 6.207

GTGTTTTTCTTATCACCCAAGATTCCTCCCCCGGCTCACACTTCTGCATGCAAGCACGTTCCCAAAGTATGAAAATGCT
TTGGATTTATATCATGCTGTTGCCTTGAAGAGTTTTATTCTCTTCCTCATATCTTCTCAGAGAAGAAAGTAATTTGGCT
GTGGTTCAAAATTCACCAAGGCAGTAAAATCTTGTGTTTTGTACACAACTTCCTTTCTAATGACCTCTCCCTTTCTTCA
CCTCACATTGGGCATTCACTCATAACTATTTAAGGGCCTTCTCTTAGGCGGCTGCCCTGTTTTCAGGTTGTGCCCTATG
TGGTCACAAGTGGCTATTCTTAATAAATCATAGAATCGTAGAATTTAAGTACTGACAGGGATTTCCTATATATAAGAAT
CCAACTTCCTACTCTGCAGAAATCCATCTCAGAACATTCTCAATGCTTAAAATTGCCTTTTCGGGAGAGAACATCAACT
CGTAAGACAAGCTCTTTCCTTGTTGCCTAGGACTCATTTTTAGAAAAATATTCTTTGTAATGAATTGTTTCCCTGCCAC
TTCCTCCCTTTGGTATGAGGCATGTTGCCAGAAAGATACAAAATAATTCTAATAATCTTTCTTAGCCTTGATAATGCAA
GAGAATACAGCAATAATTTCCTCCATTAAACCTTATTTTTTTTTTTTTTTGAGGTTAGATGCCTAAATTACTTCAAGGA
TTCTTCTTGTGGAAGCATTTTTGAGAATTTTCTTGTCTTTCTGCACCTCTGATTTGGTAACTTGACCAGCAGACTTCAC
AAGAAGCTTGCTGTCAGTGTTAGTCCAAACACAACCTATCAGTTAGTGTGTTTAGTCATTAATATTTAAGAGTGTTTTC
ATAACCTTTAAATTAATAATTAGTCATCTTTATTCTTTAATGACTACAGAAGCTCACATTCATAGTATTTTGGTAACTA
AGGTATCCATAGGCTCAAAAACTCTTCAAAATTATTGTGTAATGAAAATGTTAACCATATTTAAGAGAGTGACTTGGAA
AAAGGCCTTGTTTTTCAATCTCATATTTTGAAGAACTATTGAGATGTCACTGAATAGTATTTTTAGAATTTTTGAATTG
CTCACACATGAGCACTTGGGGAATTGGTCAGTGAATATATCTCCTGAGCACTTTGTTCCTTGAAATTATCAAATCCTTC
TTGGAATTTCTTTTTCTCTCTCTCGTGATGTGTGGGTGGGACTGGGACATTACCAACACAATTAGAACTTCATTTCTTT
TTCTTCTTAGTGAAATTTATTTTCTAAAAGGTTTGTGTGTTTCACTCTATTAGCAGTTCTGGAATCATCCAAGAGTCTA
AGTAGATGTAGCAGAGCTCTTATGGAAACTCTGGATATATACATAATCACACAGAGAATTTGTATTTAATTTTAGAGTT
ACATGTACCACTGGAATCACATTCATATTTCTATTACAGTGTAGTGATTCTGGGTTAAGAATCACTGATTTAGTTCTAC
CTCATTTTACATATACCTTTTCCTGCAAAGATATATAAAAATAAAATCATATGAATAAGTTATGTGTTTAATAGTTCCA
TTCAGTCATCTCATAAGACAAAATTACTTTCTAAGTTAATTTTAATTCAGATCTTTATAGAATATTGAGGTTTTAAATG
TGAACACATATATATAATTTTATGATACAACCTTTTCTTCTGAATACTTAAAGTGTTTTCACAGTTGGAAGTATCAAAA
ACTTTGTTCTCTGTAAACCTTCAGCTTCCAWCCTTCTTCAGTCTTATCTGCAGTTATCTCCTGCACATGTAAATGATGT
GGTAGAAGATACGGTTTAAGATGAATTTTAGTTATTTAAAGTGTGTCATAACCTGAACATTTTACAGATATATTTAAAC
AGGTATAGGTATATTTAAAATCACTATTTTAATTAAAAAAAAAAAAAACTTTGAAAAATCCCTAATTTCAAAAATATATT
TAAAATGTACATATATGAATAATATATAGAGAAAGATAGGAAATATTACCATGAATTATACAGACCTCAGTTTATCTAA
ATTTACAGTTTTAAAATAATAATCTTATCCTTATTATCTGAAGATGTCATTGATGATATGTTTCATTTTTATATTTGGC
TTTAGTTTACCAATATTAACATATAAATTATTAAACAATTGTACACCAGCTTTGTGGTCTCTCCTTTGTCATGTGTGAT
TTGTGTAATTTGATGAACTTGATGAAAGCTTCCATTTCAACTTGAAGGCTGTGAATATGCCAGATTATGTGCATTTTGT
AGTAAGGATTATGGAGCTGAACAAGTATGACAGACTTGTTAAATATGTTGTCTACAAATTTTTTTTTGTTTTTGTTTGA
GATAGAGTCTCTCTCTGTCACCCAGGCTGGAGTGCAGTGGCGTGATCTCGGCTCACTGCAACCTCCACCTCCCGGGTTC
AAGCGATTCTCCTGCCTCAGCCTCTCGAGTAGCTGGGACTACAGGCTCGTGCCACCATGATCAGCTAATTTTTTGTAGT
TTTAGTAGAGACAGGGTTTCACCATGTTAGCCAGGATGGTCTCGATCTCCTGACCTCATGATCCGCCTGCCTTGGCCTC
CCAAAGTGCTGGAATTACAGGTGTGAGCTACCGCACCCGGCCTATTGTCTACAAATTTTATCACTTTTGGTAAGAAATG
CACAAAGCCTATCATGATGTCATTGCTAGTTTATATGTTTGTGAATTTTAAGCCAAACAAGCGTTCAAAACGTTTGCCA
CAAATCGAGGACCTAAAACCCAGTTTTATATATAAAGATATTTAAAAACATATTTCTGGAGAACTATGCATATACTACC
AACACTTACAAGGCAAATTAAATTAAAAATGTTGTATAAGGAATATAATATTTTAAATTTTAGTGTAATCAAGAAAAA
GATACATTGTTTTATCAATTGATTAATTTATTGGTCATAGGATTTGGCCTATTTATATTTCTGAGTATCCAACAGAATC
AGTCCCTTAAAATGCTGAATATCACAATTTGCAGTTCGGCTAATACATTTATATCCATTTTATTACTTAGTTGTAATAT
AAAGGAAGTTACCTCTTCATATCCCAGGGAAACTATGGTAGTTGACAAGGAGTGGGTCCAGGCTTTATACCAACTGATG
TCTTATACAACTCGAGGAGTCCCTTTTAAGAGAAATGGATACATCATTGGAATATGTATTGAATGTGGAGATTGAATAT
TTATTTAGGATGTAAAACTAAATCACACCAGATTATAAAATTAATAAAGCTGACAAATTCTACAAGGATAACAAAATTT
ATAAAATTAACTTCATTTTCAGAAAATTAATTGCTTGATACATTTCTATGATTTTTTGGCTCTGTAGTTTTGGTTGCT
TATTCTCTGATTGCCTCTTCATTTTACATGATTCTATTATGTTTTCTATGTTGAGAATAACAAGATAATGCAGTCTTTT
CTCTAGTATAATTGATTGTAATCTGTCATTTTATTACCGATAGTTTAGAAAAGTTACATCAAGTTTCTCAATTTTTGGG
GGTGATTTCATATACATTCTTAGGACTGTGACCAAACTTGGGAAATATCTCTATCAAATGTCTTTCATTTGTGAACTGT
AAGATTTGGAAGAATTTTCAAAGAGCAGTTCCTGGCTTTATATGTTTTGAACATTGTGTCTCCTTCACTCCACACAGAC
TTGTGGTGCCTGAAGCTCTGGGCACATTGATTTTGGAGTGATCTCTGGGCTTGCACTTTCATGTTACCAGCACCATGGT
AATCAGGTGTGTTCGTGGAAGCTACACCCAGACAGCCAGCAAGAACCTAAGGGTACAGGGAAGAGACTGAGAACCACAA
GAATATAATCACACCAAACTGAAACTAAATGAATCTTTAACTCAGTTTCTAATTAGCCAGATCCCAAAATGGCCCACAG
TCACCCCAGTGCTAACTAACCCAAGGGAAAAGTGTGATATAGGCAAAATCAGTACGTAGACATTGATCTTAAACTTCTG
CAGTTAAAATGTCTCACTCATGCAAAATTCTAAAAGCAAAGGAGCATGCCATCCCACCCCTCGAGCCTTTTCCAGTGCC
TTAGGAAGGAGCTTGTGCAAGTGAGGGGCCCTGAAGCTTCACCCTTCCTAGCCTCACGGTAAATCCACCTCTGTGGTAG
ACAGAAACATTTCTAGACCACAGGAAATCTGTTTGCCTAAGGAAACACAGAAGCTGTCCTTACAGTTAAACAGAAATAG
TTCTATTTTTTTCCTAGAGTTCAGCACCATTTCTCAAGGGGTATTTCTTAGAAGTTCATTTTATGAAGTCTCCTCCACA
AGTTCTTTTTGATAGCCAATAATTCAAATGTCATGCTACTTCTTTAAATCACTCCAGTCATTGAATAGCATAATCTTTT
CAGGGGGCAAACAGCTGGGCTCCAGTAGGCTTTAAATGTTCATTTGTTTTCCAATTTTTTGACTTGCATAGGAAGAAGT
AATCCCTTTCATGTGAAATATTCCCCTCGATTAATTTTAAAGAACCAATGGCATTGTCTGATAATGGGATGAAAGCCCA
ATTCACTGAACAGAATGTGCTATTTGTAACCTGGATTATCCTTTAGGTTTTTCGGCATAGTCCTCGAGAAGCTGAGAAT
CTGTCATTTTATTGATTAAAATACACGTACAGATACACACGTTTACATTAGAAATAAAAATGTTGTAAGCTCAAATAGG

Fig. 6.208

CAGGGTATTTCACCTGAAAGCCTGAAATAAATGTGATGAGAACCTATGAACTAAGTTCCAGTGTAAACAAGTGGGTTAA
ATTCTCATTATAGAAACTTCCAGTGAGCAATGCAGCATGACTGTGGACCATAATTCAGGAACAATCTGCAGAGCAAAA
TATAGAGGCACTAATTTTGTTATATTTGCAGCCCACATACTGTAATACCAGATTTGCTCCTGTTGTTCTGGCCAAAGAT
GAGTCAGGTACCTCTGATATAACCATTCCTAAAAGACAACAATGGATTCAGAATGTGAGACTGAGAGAAATCCTAGAAG
TCTGACCTTCAGATCAGTTTAACTGTAGATCAATAATCCATTACTCAGACCAACACAGTACCAAAAAATCTCTTCAGCT
GGCTGCCAAGGTACTATTTTATCTTAAATAAGCTGGTTGAGAGCAGTCAATATAGATACATTTTTCCCACTGACAATTT
GCTGATTCAGAGAACATGCAACATCCAGCCACGAAATAGATAAAGCTCAGGCCTGCCCTGTAGAATATGGTCACCTGGC
TTTCCTGTTCTCCTACAAATGTCCTACTGGAAGAATAGCCCTTAATCCCTTAATGTTCATCTAAACCAAGGCTTGTTCT
AAATTCTCTAGACTCTATCTCATGCATTATTACATCTCTCTTGGCATACTTCTCTTCTTGAAGTGCATAACATTTATAT
ACCTTCTACAAATGTTGGTATTATTGATATTGAGGGAGGGGGCAGACCCAGGTCTATGGCCTTATGTATTATTAGTGAA
TTACAATTTCTTAGAGTAATAGGCCAATGATTAAAGTCACATGTTAGGAAAACTTTAATCCACTAGGGAAAACTTCCAA
TATTTTTCAAAGTAATTTACTACATTTGGATGCAAATTATATAGGTGTTTTTGGTGGTATCCATACTTGCTTTCTTGTC
AACCTGAAGAGATGTAAATGTAAATCGATGCTAATTGTACCGTGCTTACACAAAGAGCTAATTTGAGTAATATCCTATC
CCATCAGTTCATTTTCACCATACATTTTTTTCTTTACAAAATTGTTTTTAAAACTCCACTGGAAAAAAATATATAATAA
ACTACATGTAAATTACACAATTTAGTAAATTTTGATATAGGTATACACATCTGTGAGAAAATTACCAAAACTGAGATAG
TACACAAATATATATCACCCCCAAAAGTTTCCTCGTGTCTTTGTCATTCCTTCCTCCAGCTTTTTCCCAGAAATTTCAC
CTTCCTCAGGCTGATCAACACTCAGCTGAAGACTCAAGAGGGGGCCTGTGCAGATGTCCCTGAGTTCCCTCTCTGGGCC
ACTGTCTCCTCTCTTTTCAGCAAATTCTAGTTACCTTGACCTCCCTGAATTCCCAGCTCCATCTCCTCAACTTAGGGAG
ACTTTCAGGTCAGGCAGTGATCCCTCCTCCTTATGCTGGGACCTGGAAGCTCTCCAGCATGTACACTGGGGCAACCATA
GGCGTCATCTCATTGTATTCATTTTCTCTAATCACCATGCTAAGCTAACTGTTGCCTAAGGTCTGAAAACTGTTGTTTC
ATTCATTTTGTCCAGTTTTTCCATTCTTTCATGAGCAAGCATAAACCTGACTCCTTTGGGCAAGAAGCAGAAGTCCCTA
TAGTGACTTTATTTACTTTATTGTTATTGTCAGCATTTGGAAAAAAAAATGTAGAGATTGACTATTTTATACTATTTAA
GTAATTTTTTGTTATATTGATTTTACCTAAACAAGAGTTTATTAGAAGTATTTTGTTATACAGCTTATAACAAATAATT
GTACAAAAATTAGAAAAATCAGATGAACAAATTTTTTATAAGACTTCTCGTGGTTATAGAATGACTCTAACACCTTGTA
GTGTATTTTTTAGGATTTTGTTCTTAGTGCATGTGTTAGTCTGTTTTCATGCTGCTGATAAAGACATACCTGAGACTGG
GAAGAAAAAGAGGTTTAATTGGATTTACAGTTCCACATGGCCGGGGAGGCCTCAGAATCATGGTGGGAGGTGAAAGACA
CTTCTTACATGGTGGCGGCAAGAAAAAATGAGGAAGATGCAAAAGTGGAAACCCCTGATAAAACCATCAGATCTTGTGA
GACTTATTCACCACCACGAGAATAGTATAGGGGAAACTTCCCCCATGATTCAAATTATCTCCCACCGGGTGTCCCCCAC
AACACATGGAAATTATGGGAGTATAATTCAAGATGAGATTTGGGTGGGGACACAGAGTCAAACCGTATCAGTGTATATG
TTTAGAGGGACATAGAAAACTATATAAGTTTAATAAGAATATATACATATTGTTATTAAATGAAAACATTTGAAATTAT
AAAAGTAGTAAATATTTTTTAGTAAAATTAAATATATATATATAGTAAAAAGTGAAAGCTGTTTACTTCCATTCCCAGAG
AAAACTTTACTTAAATTTTATATAGTTTTTTCCAGAGTTCTTCCTACACCTGAAAAACACAGTGGATTATTTTTGTGTA
CAAAAGAAAAGAAATCATTCTATATGTATCTCCTTTACTTCCACTCTTTTTCTTTCCACTTAATTCATACAGATAAACT
TTACCATTTAAATGGCCTCTGGTGATTCCTTTATAAGAATGAACCATTAGATAGTTAACCAGTTTACTAATGACAGACA
TTTATATTGCTCCCAAGTTGTTGCCATTGTTCATTTATTTATTTCTTTAGTATTAATTCCTAGATAAGTTGCTACATCA
AAAATAATGTACATTTAATATTGCAATAGTTACAAGGAAATCTGTACTTTTTTCAGTAATATATTAGTGTCTACTTTCA
AAAAGCTTTAAATTCTGAGCATCATATTGTCTTCTAAATCTTTGACAAAAATTAATGTAAATGAATATGCTATTTTAAT
TGTCATTTATTTATTTGATTATTAGTAAGATTTAGATTTAGATTTCAGTCTTTTTATTAGCCATTTCAGAGGGATGAGC
ATTCTCTGCCTATGGACTTTGCCTGGTTTTGTATTGATGTGTTCATTGTTTCTTATTTCCTCATTTGTAACATCATTT
TAAAGTGCTTTTATTTCTGGACAATGTTTTTACATTTTTTAAGACTCCTATTGTGATTTTTATTAAAACAAAGTTAGAT
YTATAGAAAAGCTGGAAAGAATTTGAAGTTTTAACGATATTCGCTCTCCCTTTCCAGAATATGTGGCAAAGGAGGGAAA
AGAAGGGATTCTGAAGGAACACACGGGAAGTCGGCAGTGTGGGAGTGATGGATATGTTCATTCCCTTGCTTGTGGTGAT
GGTCTCACTGGTGTATACATTTGCAGTAATTGTCAAGTTGTACACTTTAAAATATGTGCAGTTTATTTTATCTCAGTTA
CATCTCAATGAAACTTTTTTTTTAAGTGGCACCAAACATACATTAAATAGCTTTCAGCCAAAAGTAAAAACTGAGTTTG
GTCAGAATATTTTTGTGCTATTTTGGTTAGATTTCTTCTGTCACAGTTATAATGGCTTTCTAAAATAAAYTAGGAAGCC
GGAGAAAGTCACTTTAACCTTCAAGAGTAGGGAAACTGAACCCATAAAAAAAGTGCTTCCAGGTCAGACTCAGCCTAAA
AAACCTGAAAAATAAATGTGACTTCTGAGTAGCAGTATATGGGAAAAATTTTCTATAAATCTCTGAGAATGAAGTTGAC
TGGAGACTACACAAGAGACAAAGAGATATAGAATTGCCTTAAATCTGAACCATGGAGTTACAGAATGATAATGGCATTA
TGATAAATTTTTAGAGAACACTCTTGATAAACAGGCACACTCAAAAATAGCTTTTTGTTTGTTGTTGTTGTTGTTTGTT
TTCTGTGCAAGAGGTGACAATTGAATGAGGTTCCAAAAAGTAGTGTGGGCTTGCATTGCACACATATTATCAGGCAGGA
TTTGTGCAGTAGAGAAAGGTGACTGAAGAATGTAGTGGAAGGACATGCTACTGGAAGAAGCTGCCAAGTGACATACACA
GGGCTGTGAGTCAGCCAGGGTTGAGGCTCTGTCCAGTGGGACAGCAGGCTCTGTCTCCACAGTGGGGACTGCCTGAGAG
CTGGGTGCTCTGGTTCAGCCATTGTAGCACAAAGGCACTTGTATAAATTTCCGTGAAATGGCTTGAAACCTACTTTGCC
ATAAGAATGAGATAAATTTTTAATTCAAAACTTAAAATATCTTGATTAGAATAAGGAGGAGGAAGAGAAAGAACAGGCA
ATAAAAAGTTATTTATTGATTGATTGACTTAATGCAGCTAGCTGAAGGGTGAGAGGAAGAACTCCGGCTCCAGAGTCTG
AAAGCCAGGGCTCAAGTTTCAATTTGGGCATTTCCCAGCTTTGAACAACAGAAAAACACTGTTTACCTTTTCAGAACCT
CAGTTTCCTTAGATCTGTAAATTAGCAATAAAAACTAATGTGCCTTCCAAGGTTATGGTAAAAATCAAATATCTTATGC
CTGTGTAAATCTTTTTCAAAAAACAATAGACACTGCAAATATTGGGCATTCTTATGATGATGTTTATTCTTCACTGGGA
GCATTGATGGATTGATTGTTACTTTTCAATAACTTTTTCCATATTTGCTCTAGTTTTAAATTTGCAAATTTTAATTCAG
TATTGTTTATAATAAGACAAAAGCTCTTCTTTAAGGTTGGGGCATTAATGTTAAAAAAAAAAAAAGAACTGTTACATCA

Fig. 6.209

AATGTACATCAAATGCAGTGACTGGACAACAACCAAAGAAACTTCCTGTGTAATCCCCATCCCATCACACACACACACA
CACACACACACACACACACACACACACACACTATAGACACTATATTTAAAATTGGCAGGGGTGATATTATGAACTCCTG
TAAAACCAAATTGATTTGTGTTTGTCAGGAATGTGTGGGTCTGTGTCCTGGAATGCTATATATTTCCACTGTGCACTGC
CCATTGACCATTTCTACTAGGATGCCTTGAAGGCACCTCAGACTCAACAAGTTCAATTTGAAATTCATTATGTACTCCC
CAGTTGTTCACGCTAGGAGCCTTCAGGCCACCCGTGACTTTTCTCTCTCCTTGAGTCTCTCCTTAGCTTCCCATGGATC
AGTCTCTGTACCATGTTGATTCTACCTTCTGAGTATCCTTTCTGCTCTCCCTCATCTGCACTTCTGTTACCACTGCCTG
AGTTTTGGTTATGGGCTTCTTAGTCTTTTAGTCTTTTCTCTCCCCCAACCCAGCCATCGCCACCAGCAAGAACTATCTT
TCTAAAGCACCAATTATCTTTCCAAAACAGAAGATTTTCTCTTCTTTGTAGGAATTTAACTTTAGGGCATAGTCAGATA
AATTAGCCAAAATATATGTGAAGAAGCTGTTCATCACAATATTGTTTATTATAGTAAAAAAAGGAAAAAAACCTTAATA
TCTCAAAAATGGATCAGTAATATCGAGACTATACACAATAGTCATTACATTGGTATTATAGATGTATAATAATTTGGAA
ATGATATTATAAAAAATTATTAAATAATGTGCATAGAAAAATTTGTGGAAAATGTTTTATGCTATAAAAATATTTCTAG
GTAATGGAATTTAGTAAGAATTTTTCTCTTCCTACTTCCCACCAAACAAAAGCAAAATAAAACTAAAATAGAACAAAAA
TTCTGCTATGTAGCCCTTTACAAAAGATAGTGCTTCTGGCAAGAAACTGTGACTGACCAAAATCCTGCAATTCAGTACC
TGTGAAATGCCATATAACAAATTTACTCATATCCTAAAAGTTATGAGAACTGGGGGCTTCAGGACATCTCATACCTGCC
TCATTTTTTCAAGAAAATTTGTTGTAGAATCTTTTATATAAAACACTATACACTGTCCTTAATCCACTATGTCCTATTC
CCTCTATTTACAAATGTGCTTTGTCCTTACATTTCTTTAAAAAAAAAACAACAAAAAACTGTGTTCACACGTATCTTTG
TAGGCTAAAGAAAAGTGATACTATAAGGATTGGGAGGTAGAGGGTGGGGGCACTGAGGAAGCCCTGCTGCCCTCAGGTT
AAGCTCCGTATCTCTCTCATTTAAGGTCCCTGATAGGAGTTACTTGTTCTCAAACATGTGTGTTGGCTCTTTACTGTCT
TTTAAGTAGCATTTATGATGAATTCCCTTTTTTTAATGGTGGTATTACAGTATCTGATGTTAGGCATAGAACTGCTCAG
GCAGCAAGTCACCTTTTCTTTTTCCCCTTTTTTGATAGACTTGAGAGACCAAGGCAGCACACACACACTCCTCCAACTA
GCTTTGCAATTTGCATACATTTCGATTCTGGTGGKCTATTCATCATTTTTATAGAAATGCTTTTATGAAATTCGATCTC
ATGGAGTGAGTTAGGAGTTTCTTTGTTTTTTGCTTTATGATAACCCATTGCCTCAGTAAATATCTTAATTATTCCCAGA
AAAAAATAAACCCAACTGATTAGACCTAATCCCTTCTCAAATCACTTTACTTTCTTTGTCATTTCCTATCCATCCTCTC
TCTACACTCAGATGTCTTTGTTTTATTATGAAATATATTTGGCATGAGTAACAACATTAAGTAATATGAATCATTTTAT
TTGGTTAAATGTCTACACTCAAAGATTAGTGGAGAATTTGGAAAATATAACGAAATAATACTGGAACTTTTGATATTTC
CCTAGCTACTTGCCATATTCAAAAGATGTGTCTTTGAAGTGAAGAGCAGAATAGTACCTTATTATAGTCCATATTAAAT
CATATTTATGGCTTTCAACAGAAGTATTGAAAACCAGATTCAGTTGCTGCACCCATCAACTCATCATCTACATTAGGTA
TTTCTCCGAATGTTATCCCTTCCCTTGMCCCCAACCCCCCGACAGGCCCCAGTGTGTGATGTTCCCCTCCCTTTGCCCA
TATGTTCTCATTGTTCAACTCCCACTTATGAGTGAGAACATGCGGTGTTTGGTTTTCGGTTCCTGTGTTAGTTTGCTAA
GAATGATGGTTTCAAGCTTCATCCAAGTCCCTGCAAAGGACATGAACTCATTTTTTTTTTTTTATGTCTGCAAAGTATT
CCATGGTGTATATGTGCCACATTTTCTTCATCCAGTCTATCATTGATGGGTATTTTTGTTGGTTCCAAGTCTTTGCTAT
TGTGAATAGTCCTGCAATAAACATACACGTGCATGTGTCTCTATAGTAGAATGATTTATAATCCTTTGGGATTATATAC
CCAGTAATGGGATTGCTGGGTCAAATGGTATTTCTACTTCTAGATCCTTGAGAAATCGCCACACTGTCTTCCACGATGG
TTGAACCAATTTACACTCCCACCAACAGTGTAAAAGCATTCCTATTTCTCCACATCCTTTCCAGCATCTATTTTTTCCT
GACTTTTTAATGATCGTCATTCTAACTGGTGTGAGATGGTATCTCATTGTAGTTTTGATTTGCATTTCTCTAATGACCA
GTGATGATGAGCTTTTTTCATATGCTTGTTCATATGCATAAATGTCTTCTTTTGAGAATTGTCTGTCCATATCCTTCGT
CTGCTTTTTGATGGGGTTGTTTGTTTCTTGTAAATTTGTTTAAGTTCCTTGTAGATTCTGGATATTAGACCTTTGTCAG
ATGGAGACTGCAAAACTTTTCTCTCATTCTCTAGCCTGTTCACTCTGATGATAGTTTCTTTTGCTGTGCAGAAGCTCTT
TAGTTTAGTTAGATCCCATTTGTCAATTTTGGCTTTCGTTGCCATTGCTTTTGGTGTTTTAGTCATGAACTCTTTGCCC
ATGCTTATGTCCTGAATGGTATTGCCTAGGTTTTCTTCTAGGGTTTTTATGGTTTTAGGTCTTAAGTTTAAGTCTTTAA
TCCATCTTGAGTTAATTTTTGTATAAGGTGTAAGGAAGGGGTCCAGTTTCAGTTTTCTGCATATGGCTAGCCAGTTTTC
CCAACAGCATTTATTAAATAGGGAATCCATTCCCCATTGCTTGTTTTTGTCAGGTTTGTCAAAGATCAGATGGTTGTAG
ATGTGTGGTGTTGTTTCTGAGGCCTCTGTTCTGTTCCATTGGTCTATATACCTGTTTGGTACCAGTAGCATGCTGTTG
TGGTTACTGTAGCCTTATAGTATAGTTTGAAGTCAGGTAGCTTGATGCTTCCAGCTTTGTTTTTGTTTGTTTGTTTGT
TTTTTCTTTTGCTTAGGATTGTCTTGGCAATACGGGCTCTCTTTTGGTTCCATATGAAATTTAAAGTAGTTTTTTCTAA
TTCTGTGAAGAAAGTCAATGGTAGCTTGATGGGAATAGCATTGAATCTATAAATTACTTTGGACAGTGTGGCCATTTTC
ACTATATTGATTCTTCCTATCCATGAGCATGGAATGTTTTTCCATTTGTTTGTGTCTTCTCTTATTTCCTTGGGCAGTG
GTTTGTAGTTCAACTTGAAGAGGTCCTTCACATCCCTTGTAAGTTGTATTCGTAGGTATTTTCTTCTCTYTTTGTTGCAAT
TGTGAATGGGAGTTTGCTCATGATTTGGCTCTCTGTTTGTCTATTATTTGTGTATAGGAATGATTGTGATTTTTGTACA
TTGAGTTTTTATCCTGAGACTTTGCTGAAGTTGCTTATCAGCTTAAGGAGTTTTTGGGCTGAGACGATGGGGTTTTCTA
AATATACAGTCATGTCATCCGCAAAGAGAGATAATTTAACATCCTCTCTTCCTATTTGAATATATTTTATTTCTTTCTC
TTGCCTGATTGCCCTGGCCAGAACTTCCAATACTGTGTTGAACAGGAGTGGTGAAAGAGGGCATCCTTGTCTTGTGCCA
GTTTTCAAAGGGAATACTTCCAGCTTTTGCCCATTCAGTATGTTGTTGGCTGTGGGTTTGTCATAAATAGCTCTTATTA
TTTCAAGACATGTTACATCAATACCTATTGAGTGTTTTTAGCATGAAGGAGTGTTGAATTTTATCGAAGGCCTTTTCTG
CATCTATTGAGTTGATCATGTGGTTTTTGTCATTGGTTTCATTTATGTGATGGGTTATGTTTATTGATTTGCATATGTT
GAACTAGCCTTGCATCCCAGGGATGAAGCCGACTTGATCGTGGTGGATAAGCTTTTTAATGCGTTGCTGGATTTGGTTT
ACCAGTATTTTATTGAGGATTTTCACATCGATGTTCATCAAGGATATTTGGCCTGAGATTTTCTTTTTTTGTTGTGTCT
CTGCCAGCTTTTGGTATCAGGATGATGCTGGCCTCATAAAACGAGTTAGGGAGGAGTCCCTCTTTTTCTATTGATTGGA
ATAGTTTCAGAAGGAACGGTACCAGCTCCTCTTTGTACCTCTGGTAGAATTTGGCTGTGAATTCATCTGGTCCTGGGCT
TTTTTGGTTGGTAAGTTATTAATTACTGCCTCAATTTCAGAATTTGTTATTGGTCTATTCAGGGATTCCACTTCTTTC

Fig. 6.210

TGGTTTAGTCTTAGGAAGGTGTATGTGTCCAGGAATTTATCCATTTCTTCTAGATTTTCTAGTTTATTTGTGTAGAGGT
GTTTATAGTATTCTCTGGTGGTAGTTTGTATTTCTGTGGGATCAATGATGATATCCCCTTTATCTTTTTTTATTTATKG
TGTCTATTTGATTCTTCTCTCTTTTCTTCTTCATTGATCTGGCTAGTGGTCTGTTTTGTTAATCGTTTCAAAAAACCAG
CTCCTGGATTCATTGATTTTTTCAAAGGGTTTTTTCTGTCTCTGTCTCCTTCAATTCTGCTCTGATCTTAGTTATTTCT
TGCCTTCTGCTGGCTTTTGAATGTGTTTGCCCTTGCTTCTCTAGTTCTTTTAATTGTGATGTTAGGGTGTCAATTTTAG
ATCTTTCCTGCTTTCTCTTGTGTGCATTTAGTGCTATAAATTTCCCTCTAAACACTGCTTTAGCTGTGTCCCAGAGATT
CTGGTACATTGTATGTTTGTTCTTATTAGTTTCAAAGAACTTATTTATTTCTGCCTTYGTTTCGTTATTCACCCAGTAG
TCATTCAGGAGCAGGTTTTTTGATTTTCCATGTAGTTGTGCTGTTTTGAGTTAGTTCTTAATCCTGAGTTCTAACTTGA
TTGCACTGTGGTCTGAGAGACTGTTTGTTATGATTTCTGGTTTTTTGCATTTGCTGAGGAGTGTTTTATTTCCAATTAT
GTGGTCAATTTTAGAATAAGTGCAATGTGGTGCTGAGAAGAATGTATATTCTGTTGATTTGTGGTGGAGAGTTCTGTAG
ATGTCTATTAGGTCCACTTGGTCCAGAGCTTAGTTCAAGTCTTGAATATTCTTGTTAATTTTCTGTCTCGTTCATCTGT
CTGATATTGACAGTGGGGTGTTAAAGTCTCCCACTAGTATTGTGTGGAAGTCTAAGTCTCTTTGTAGGTCTCTAGGAAC
TTGCATTATGAATCTGGGTGCTCTTGTATTGGGTGCATATATATTTCAGGTAGTTAGCTCTTCTTGTTGCATTGAACCC
TTTACCAATATGTAATGCCCTTCTTTGTCTTTTTCTRTCTTTTTTGGTTTAAAGTCTGTTTTATCAGAGACTAGGATTA
CAACACCTTTTTTTTTTCTTTCTGTTTGTTTGGTAAATCTTCCTCCATCCCTTTATTTTTGAGCCTGTGTGTGTGTTTG
CACATGAGATGAGTCTACTRAATACAGCACATTGATGGGTCTTGACTCTGTCTAGTTTGCCAGCCTGTGCCATTTAATT
GGGGCATTTAGCTCATTTACATTTAAGGTTAATATTGTTATGTATGAATTTGATCCTGTCATTATGATGCTAGCTGTTT
ATTTTGCCCATTAGTTGATGTAGTTTCTTCATAGTGTCAGCGGTCTTTACAATTTAATATGTTTTTGCAGTGGCTGGTA
TCAGTTTTTCCTTTCCATATTTAGTGCTTCCTCCAGGAGCTCTTGTAAGGCAGGCCTGGTGGGGACGAAATCCCTCAGG
ATTTGCTTGTTTGTAAAGGATTTTGTTTCTTCTTCAATTATGAAGCTTAGTTTGGCTGGATATGAAATTCTGGGTTGCA
AATTCTTCTCTTTAAGAATGTTGAATATTGGCCCCCACTCTCTTCTGGCTTGTAGGGTTTCTGCAGAGAGATCAGCTGT
TAGTCTGATGGGCTTCCCTTTGTGGGTAACCCAACCTTTCTCTCTGGCTGCCCTTCACATGTTTCCTTCATTTCAACC
TTGATGAATCTCACGATTATGTGTCTTGGGGTTGCTCTTCTCAAGGAGTATCTTTGTGAGGTTCTCTGTATTTTCTGAA
TTTGAATGTTGGCCTGTCTTGCTAGGTTGGGGAAGTTCTCCTGGAAAATATCCTGAAAAGTGTTTTCCAACTTGGTTTC
ATTCTTCCCATCTCTTTCAGGTACACTAATCACATGTAGGTTTGGCTTTTTACATAGTCCCATATTTCTTGGAAGCTTT
TTTCATTCCTTTTCATTCTTTTTTTATCTAATCTTGTCTTCATGCTTTATTTCATTAAGTTGATCTTCAATCTCTGATA
TCCTTTCTTCCACTTGATCAGTTTGGCTATTGATACTGTGGTAAGCTTCACGATGTTCTCGTGCTGTGTTTTTTCAACT
CCATCAGGTTATTTATGTTCTTCTCTAAACTGGTTATTCTAGTTAGCTATTCCACTAACCTTTTATCAATGTTCTTAGC
TTCCTTGCATTAGGTTAGAACATACTTTTTTAGCTTGGAGGAGTTTGTTATTACCCACCTTCTGAAGCCTATTTCTGTG
AATTGATCTAACTCATTTTCTGTCCAGTTTTGTTCCCTTGCTGGCGAGGAGTTGTGATCCTTCGGAGAAGAAGAGGCAT
TCTGTTTTTTGGAATTTCCATCCTTTTTGCACTGGTTTTTCCTCATCTTCATGGATTTATCTACCTTTGTTCTTTGCTG
TTGGTGACCTTTAGATGGAGTTTTTGTGTGGTCATCTTTTTTGTTGATGTTGATGCTATTGCTTTTTGTTTGTTAGTTT
TCCTTCTAGCAGTCAGACCCCTCTTCTGCAGGTTTGCTGGAGGTCCACTCCACACCCTGTTTGCCTGGGTATCACTAGC
AGAGCCTGCAGAACAGCAAAAATTGCTCCCTGCTCCTTCCTCTGGAAGCTTCGTCCAAGAGGGGCACCCAACAGATGCC
AGCCAGAACTCTCCTGTATGAAGTGTCTGTCAACCCCTGCTGGGAGTATCTCCCYATCGGGAGGCACAGGGGTCAGGGG
CCAACTTGAGGAGGGAGTCTGTTCCTTAGCAGAGCTTAAGGGCTGTGCTGGGAAATCTGCTGTTCTCTTCAGAGCTGGC
AGGCAGGAACATTTAAGTCTGCTGAAGCTGTGCCCAAAGCCACCCCTCCCCCCAGGTGCTCTGTCCCAGGGAGATGGGA
GTTTTATCTGTAAGCCCCTGACTGGGGCTGCTACCTTTCTTTCAGAGATACCCTGCTCAGACAGGAAGAATCTAGAGAG
GCAGTCTGGCTACAGCAACTTTGTGGAGCTGCGGTGGGCTCTGCCCAGTTTGAACTTCCTGGCAGCTTTGTTTACACTG
TGAGGGAAAAACCACCTACTTAAGCCTCAGTAATGGCGGACACCCCTCCCCACACCAAGCTAGAGCATCCCAGGTCGAC
TTCAGGCTGCTATACTGGCAGCAAGAATTTCAAGCCAGTGTATCTTAGCTTGCTGGGCTCTGTCAGTGTGGGATTCACT
GAGCAAGACCCCTTGGCTCCCTGGCTTCAGCCCCCTTCCAGGGGATTGAATGGCTGTCTCACTGGTGTTCCAGGTGCCA
TTGGGTTATGAAAAAAAAACTCCTGCAGCTAGCTCAATGCCTGCCCAAACAGCCACCCAGTTTTGTGCTTGAAACCCAG
AGCCCTTGTGGTATAGGCACCCAAGAGAATCTCCTGATCTGTGGCTAGTGAAGACCGTGGGAAAAGCATAGTATCTGGG
CTGGGTAGCTTCGTTCCTCACGGCACAGTCCCTCATGACTTCCCTTGGGTAGAGGAGGGAGTTCCCGAGCCCCTTGTGC
TTCCCAGGTGGGGAGACGCCCCACCCTGCTTCTGCTTGCCCTCTGTGGGCTGCACCCACTGTCTAACCAGGTCCAGTGA
GATGAGCTGGGTACCTCAGTTGGAAATGCTGAAATCACCTGCCTTCTGTGTTGATCTCACTGGGAGCTGCAGGCCGGAG
CTGTTTCTATTTGGCCATCTTTATTCTCTTACAATTGAAAAATAATGATCTTAAAATTTTTGTCTCCACAAACAAAAGC
AAGTAAATTATCTCAGTAATATAGTTTTAAGAATAGTTGCTCTTTTTTTAAYTGTTGGCAGGGGCATAAGGGATAAGAGA
AGAAATAGTTAAGAACACAGGTGGGTTCAAATCTACTCTCTGGCACTTACTAGCTGGGGAACTTTGGGCAACTCACCTA
AACCATTTAAGCACTACTAGTTGCCTCTTCTGGAAGATGGCAGTTGTAATAATACATAATTGATAGTGTCATTATGAGA
TAAAATGACATAATGCAAATAAAGTTATTGGCCATGTGCTTGGTACAAAATAAGTACTCAAAAAGTACTTCAAAGTAAT
TTTTTATTCTAGGAGCCATTCCTTACAGGTGGAAAAATTGTGCCTTTTGCTTACATTTTACTTTGCATTTCACAAGATG
TCTTCAAGAGTATGACCTCATTTTATCCCTTCCACAAATATGAGACATAGAAATTGTTAGCTACATTTTTCTAGGGAAAA
AAAACCGAGCGTCAGGAATATTAAGTGACTCAGCCAAGGGTCTACACCTCATAATTAGCAGGATCAAGACCAATGAAAG
TGCCTCTTGGTAAGATCATACCTGAAGCTAACAGACACGTGCAGGCCTCCTACAACATAGGTAGCCATGTTTAGTGTAG
GCAGCAGTTGGACTTCTGTATATTCATTTCTGGCACTGGAGACTGCTTCTATTATAGAAGTTGTGACCTTGTCACTCAT
CAAGCAGATGGCATTGCTTGATTAGAGTCAGGCCATATTTAGAACATTTCTATAAAGCCATTCTCATTTGGGCAAACAT
TTTTGCCAATTGAAGTGTTTCTTTTCACTAATTGAGCAAACAAATCATGGGCTATCCACTCACAAGGGCTTTCCACCAC
CCATATTTTCAGGAAGGCAGGTGTTGAGCTTATATTTTCAGAATATATTTCCAGCTTCATACACTCTTAAGAGAACATT

Fig. 6.211

GAAGCCTCTTTGATGAAGGTGAGGGTCTATAAACATGCTTGTATTCATTATAAGGGGATTGTGATTGTCCTCATAGAAA
AATGACTTTAAGAAATAGATGTATCCTGAAGCAAGATAATATGAGTGTCAGGCTGGACACGTAAAATACAAGGGAAGGT
AGTGGGGAAAAGGCTGAGAAAAGAGTACTGTAGACTTTACATCACAATGCTTAAATTAATCTAAAATGTAAGCTATAAA
ATAGACTAAAATTATATATAGACGTATGTGCGTATGTGTGCATATGCATAAAAGTGTATGTATCTCCATACTTCAAAGG
CTAATATTCACAGATAGATTCAACAATCAAATACGGAGTTAGTTTGAAGGAAAAGCCAAATAAGACACCTTTGCTAGA
CTTTAAAATTTTATTTTAACTGAAACTACGGTATAGACATAACCATATAAACTAATCTATTTACTTGTAAAATTAATTG
TTTCATTGTCATTGAATCAGATGTGAGTGTATTTAGATAAGTCAAGGTAGTAAAAGAGTATAATAAGAAACACTGAGAC
CCAGGGATCATGCTAACTCAGACTTCTGTCTTGAGTCTGCCACATAAGAGCAATATTTCCTCAGGCAAATTATTTTCAT
AGTTTTGAACTTGAAATTCTCATCTGATAAATGGACACACCAATGCCTAACACATAGGGTAGCTGTGAGGATTAAATGA
CATGCGCAATTTGCATGGCTTCCTCATCAAGTTGCCACTTGTATTAGTCGGCTAGGGCTGCTATAGAAAATACCACAAG
CTTGGTGCCTTAAGCAACAGAAATTTATTATCTCACCGTTCTGGAGGCTAGGAGTCTGAGATCAAGGTGTTGGCAGGGT
TGGTTCTTTCCGAGGGCTGTGAGGAAGGATCTGTTTCAGGTCCTTTTCTTAGCTTGTAGATGGCCTTCTCTCTGTATTT
TCTCTTCGTCTTCTCTCTGTACATGTCTCTGTGTCCACATTTCCCTTCATGTCTCTGTGTCCAAATTTCTCTTTGTCTT
CTCTCTGTACATGTCTCTGTGTCCAAATTTCCCTTTTATTACAAGGACACCAGTCACATTGAAGTAGGGTGCATCTTAC
TCCTATATGACCTCATCTTAACTAATAACATCTGCAAAAACCCTATTTCCAATAGGGTCCCATTCTAGGGTACTGAGAG
GTTAGGCTTCAACATTAATTTGATAGGGGGACACAGTACAACCCATAACAACACTCAGAAGTCACTTTCTCAGACAGA
CCATGCTTGACCACTGATGTAGTTTGGCTGTGTCCCCACCAAAATATCCTGAATTGTAGTTCCCATAATCCGCACGTGT
AGTGGGAGGGACCAAGTGGGAGGTAATTGAATCATGGTGGCAGTTACACTCATGCTGTTCTCRTGATAGTGAGTGAGTT
CTCATGAGATCTGATGGTTTTTTAAGGGGCTTTCCCTTTTTTGTTTGGCACTTCTCCTTGCTGCTGCTATGTGAAGAAG
GACATGTTAGCTTCCCCTTCCACCATGGTTGTAAGTTTCCTGAGGCTTCCCCAGCCATGCTGAACTGTGAGTCAATTAA
ACCTCTTTCCATTATAAATCACCCAGTGTCAGGTATGTCTTTATTAGTGGGATGAGAACGGACTAATACAACTACCTTT
TCTAAGAACAGTCTTACCCTTTCCTAGCACACACAGTCCCTTGCCCTATATAATATGCCAAAGTAAATCATAGAATCAT
TTATTTTCTTATTCTTTTTCTATCCCCCACACTAGTCTGAAGTCCATGGTGCCAGGGCCCTACTTGTCTTGGAGGTTGT
TCTATTCTGGGCTTGGAGAACAGTGCCTGGTACAAAATAGATCCTTAACCTCTGGCTTGAGGTTAGGGCTCAATAAGTA
ATAGGTGGTATAAGTATCTAAAAAAGAATCTCATTCTCTATCCAAATTGGTATTCACTAGCCATATGTGAAAGAAACTA
AATTTTCAATTTTATTTTAATAAATCTAAATTTAAATATCCATTAGTGGCTATTATATTGGACAGCACAGATATAGAAC
ATTTCTGCTACTGCAGGAAGTTCTATGGGACATTTCTAGACATAGAAGCATAGATGAGGATATAATAGTGATAATTCAG
TTCAGACCCGGTGCTGCCTGCCAAATTCCACAACACTGCCCTGCATTGCTGCCCTCTCATGACACCACACAGCTCCCAG
TTGATTTGTTCTTCTTTATGGTACCAGGTGTATTGGGTGTATTGCAAGCATTTTCTTCTTCCATTATTAAGTTAAAAAT
ACCCCTTGAAGTTTTGAAAAGCTGTAAAGGGGTTGTCTTGAGAGTCCCATTAACATTTATAGTGAATTCTGTGGCAGCA
ATTTTTTATTTTAATTGTTGTTGTCTTTGCTATTCAGATAAGTAAGCAGTAGGCATRGATAATTAATGTACAGATTCTG
TTTTACACAACTTTAAGAATGACTCTTTGAGAAACATGTCTTAAGGACAATGAACTGAGATATCCCTTACTTGAGGAT
AAAATATGGGTGCAGGTACAAGGAGTCAGCAGGTGTCACGTGTGGGCTCATTTCTTCCCTCAACCCTGGAAAGTATATA
GATTCTCACCATCCTTGTTCAGCCTCTGCCTTAGGGATAAGCAGTGCTGGGGTGATTTTATGCTCAGRAAGTAACCAAA
GGCTAGCAAACATCTCTCATTGTTGGCAGTAAAAACCATTGCTATGAATAACAATCTATATTTTATAAAACTATTTTGG
CTTCACATAAAAAATCTGATGCTTCAAGGAACATACTCCAATGTGCCTTGAAGTATAGCACATACTCCAATGTGTTACTG
AATCCTGAACCACACCCCTAAAGGAGGCATTCATTGATATCACTGGCTTAACAAAAGGCTTTGGGGTGGGGTGAAGGGA
TAATACATAATGCAGTTAGAAAGTGATAGAAAGCATATTGCTTATATAAAATTCAGTGCTAGGTAAGAATAAAATATGA
AATACATGTGGCAATGAACTTAGAATATGCTCCAGTTTTGGAAAAAGAATAGTAAGATAAAACCCTAGAATTTGGAACA
TTTTTAAATAACCTCTATTACTATCATTTTAATCTTTGAACAGTGACAAAATATCCCACCTGCTTTGTGACTTTTCTGA
AAAGAATACATGGTCACAGGGTATTCTCTATTGGAATACCATTCACACCTTCAAACTTATCACCATCCAGTTAAATTTG
AGGAATGGTAATTGATGACCTTAAGTGAGTCAAGTCACAATTACCTGAAGAACTAAAAATGCTACTGGAAGGACTAGAC
TCTAAGTTGGTACCTAACTAATTCTTATTGCCTGAATGTGGTTGTAGAGTAGACCCTTCATTAGGAAGTGAATAGGGGA
AGTATGAAAAAATTAAATGTGTACAAAATCCAAAGCTTCCTGATAGGTCTTTTGGGCTATTTTGAAGAATAAGACAAACA
ACAGAAGCATTATAATTGGAGGATTATAGAGCCAACAAAGGCAAAGTAGGAGCATATTTATCAGACATAATAAAGACAG
AAATTAAAGATCTTATTTATGTTTGAGGCATAGGAAGCAATAGAAGCATATATATTTGCAAGGTCTAGACATGCCTCTA
TTCATCAATGCATTTTAGTATTTTAGCTCAGCGTTCATTAAAGTTATTACCTTAATTTATTTAATCAAAATATTGACTC
TATTCTCATACTGCAAATAACTTGTTACATGATTTGGATGTTAATATGATTTTTTTACCACTGAAAGTTAAACTAATGC
TCATCCTTTCACTATTAAAATATTAATGTCTTCTATTTTAGTTTAGCATTTAAAAAACAAATTTGTAGAGATGGGATCT
CACTGTTATAAAAAAGCTTTCCATTTTTGTAAACTGCAAACTTGCAGTTAGCTTAACTAAAATTACATAATAGAATTTC
CAAATTAAGAAATTAAGTCACTCATTTGTTCTGTAAAGCAGTCACCCTTGAATAAAGAAATSCATGGTTCAACATATTT
TTTAAGAATTCAATAGTACTTTCAGCTTTATTGGGATATAACTGACAAATTGAAATTGTATATATTTTCAGTGAACAAC
TTGATGTTTTGATATACACATAAACTTTATGAAATGACCATTACCATGGTTCCATATAACCATTGTGTTTAAACCATCT
AATTCTCTTGTTGACTTTCATTTAAATGTTTGATGTATAGAAACCTCATTTCATTAAATACTTCAGAGGCCAACTGTTA
TTTTATAGAATCCAACAAACATTACTTTAATGTTAACGGACCCTAAAATGGAAACCAGGCATTGGTTTTTTTTATTTTG
TTTTGTTTTGTTTTTTTGAGACGGAGTCTCACTCTTTCACCCAGGCTGGAGTACAGTGGCACAATCTGGGCTCACTGCA
AGCTCCGCCTCCTGGGTTCATGCCATTCTCCTGCCTCAGCCACCCAAGTAGCTGGGACTACAGGCGCCCGCCACCACGC
CTGGCCAATTTTTTGTATTTTTGTTTTTTTAGTAGAGACGGGGTTTCACCGTGTTAGCTAGGATGGTCTCAATCTCCTG
ATCTTGTGATCCRCCCGCCTCAGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACCGCGCCCAGTCATTGGTTTGT
AATGCCATAAAGAATCCATGAATAATATAGTCGTGTATTTATTTTTGAAAGAGAATGTTCTTTTAATAAAGCATATGTT

Fig. 6.212

TTCTAATTTACACTTGAGCAAACCTTTATTTAAAGAAAAATTGAGAAATTTATGTTTCAGAGTTATGAGACACCGTCT
TCTTATCTAAGATATGAAGGATGCAGCAATAAATTATCCAGATGTTTGGCTATAGTCTTTTTTTATTGTTGAGTAACA
AATTTCCATACACTTAGCAACTTAAAACAATATCCTTTTTTTTTTTTAATGTCGCAGCTCTTTAGGTCAGAAATTCAGG
ATAACAGGGCTGGTTTATGTGCTCAGAGTCTCAAACTCAAGGCTGAAATTAAGGTGCTAACCAGCTGTGATCTTATCTG
GAATCAAGGTCATCTCTCAAGATCATTACTGCCACTGTTGGAAGAATTCAGTTTCTTGCAATTATAGGATAGAAATCCC
TCTTCTTTTGCTAGCTGTTGGCTGTAGCCCCCTGTGACCTTCTAGAGGCCACTCTTGGATTCTTATCCCATTGGTCATC
TTCATCTCAGCCGTGGAAGACCTCCCCTCTCACACTTCATCTCTCTGACTTCCTTTTTTGCTTCTAGCTAAAGAAAGCA
CTCTGCTTTTATAGGTTTTATAGGACTCATGTGATTAGATTAGACCCACCCTGATAATCTTATCTTAAGGTCAGCTGAT
TAGTAACCTTAATTGCATCTACAAAAATTCCTTTTTCCATGTAAAGTAATATAACCGTGGAGTAACACCAGGGCTGAGG
GTAATAGGAGTCATCTTAGAATTGTGTATTAGCCAAGATGTGGAATTCCTATCAATAAATTTAAGCAGTGTTTCCATTA
TATTTGAAAAGGAGAGAAGATTAGGGTGGCTGATCATCTTGTATTTAAATGCTAAGAAAGACAATAATCACAGCCAARA
AGCTTGGTCACATGTTGACTTTTTAGGAACTCAATTATAGCAATCAGAATTGATAGAGGCAGAAATCATACTGCAAAGG
CTTAAAGGAATGCTAAGAGTTCTACCATTTGAGAAATAAAGAACTACCAGGCAAAATGAAGAAATAACCATGTAATTGA
AAAACTGCCAGAAATAATTCTTAATTAGATGTAGACCAAATGTCTCAATAGTTGGATAACAAGGCAGAGGCCACATAAT
TCCTCTGTGCATCAGTCTGCTCAGACATTCTCATCCATTGCAGATTAAAGCCGAGTACTACCACGTTTGTGCCACAGCG
TCTCTGTGGCCTCCTCCCTGATGGCTGCCTGGGAACATGTTCCTCACTGCATCACACTGCCCTTCCCAGTCTCTCAGGA
AGCTTAAAGGGGTAAAGCAAAGGGAGGAGACTGAAAAAAAAATGACAAATTCGGGAGAAGATCTTTTAACTTTCTGTTC
ATTAAGTGAGAATTTGTAGATAGAGTGGAAAGAACCATTGTGATCAGGGGCAGGAGTATGTGAAGGAAAGGAGGGATAG
ACTGAAGATGTCAGAGACAGAGAAGGCCCCAAAGGATGGAACAGGGGATGGAATTAGGAGAAACGTCCTGAAGGATAGA
ATGGGGATAGAATTAAGAGCGTGCATGGATCCATTTAGTCTGGAAAGTGAAAATCTTATTTTTCTGAAATACAGGAAAA
GAACAGAAAATGAGTAGTGGTTTCAAATGAGGGAGAAAAAGCAATTACATGTAAGAAGGCTTCTATCCTCTCAACACAA
CGGGGCTGCTTTATATATATTTTCTCTTCTGTAAAGTGATAAAAAATAGTAAGGCCAAATAATATTTATGATAGTTAAC
TGATATGATGCATATAAACTGCTTAGAGTAGCATATACCACATTATAAATGCACAGAAATGTTAGCTATTTTTTACTAT
CATTGCCATTATTATTTTCTATTGACAGTAAAGGAAAGTGAGGTAATGTTGTGAATTTAAAAGTAACATAAAGCTTTTC
AATCACTTGTTAAAAATAGCATTGCAGAGAAACATTGAACCCTCCTTAAATGTAAATAGCACGATTCATYGAACATCTA
GTCAAGATGACTAATCTTTTTTTCTAGTAACGCTCAACAGTCTAGAAGGTACAGAAGGCGGTGGGTATCAAGGTTTATA
AAAGGTCAGGAATTGGAACTCTGGGGACCTGGTTGTTCTCATGAGGGCACATACCAAGATCAGGGTGAGCTAGGAAGTT
TAAGTGATAGGAAGATAATAGATTTATTTAGAGAGGGGAAATTGAGACAGTTTCAAGCCTCGGAGATGGAACAGAACAA
CAGAGCTCCAAGCACTGGGATGCAGGGCTGGAGGTGACCAAGTCCACGACTTTGTCTTTCTAAAGTGAAGTGGAGGTGA
GTCTGAAGAAATTATCACTGTGATTAAGGTTGTTATTGAGGGCAACAGGGCAAGCTAGCTTAGGAAGAAAAAGTTTGGC
CTAGGTRTAAGATGTAGTTGTCTAATATTGAACAGCACAGATTTTAGAACATTAGCATCACCACAGAAAATTCGATTGA
ACAGCACTGTACTAGAGGTACAGGAAAGTGAGAGGGTAGGGTCTTACAGAAAATGTTGGAGCAGAAGAAACTATGCCAA
ATGAGGATGTGAGCAAGGATATTCTGTATTTTTGACAATTTTGAAGCATTATTTATTATTTTAACGTTTCTGAAATTTG
GATGAGTCATGCAATTGATGTGCTCATTTAATAAGGTTAGTGTTTATTTTTGTCCTGAAAAACCATTAAGCAATTAATA
ATGCATCTCACAATCAGTGTCATCATAATATCAATGAAATATGGTAAGAGCAAGGCCAAAGGAAGGGTTTTCTTACTGG
GTGGTGATCACAACGATAAAGAATCAGGACAAAAAGACTGAAGAGATGTGGTGATAATGGGATATGAGCTGAGTTGGAA
AAGAACTAGCCCCAAGATATTAGTCAGCACTTTGGAGGGGTGATGAATTTGCCATGGTTTAAAGTACTTCTTTGAGTTT
ACAGCACCCGACTCTGTGTTCTCAGACCTTATGTTGTTTGAGAATTGGGCTGATGGTGAGTGTCAGGAGAATGATGTCA
GTCATTCTAAAATAGTCTCCCAGGTGCTGATGCGCTTTGGCAACTACAGTAGGTCTTCCTTAAGATTGGGCATGGAAGA
GACAAATGTCGGAGAAAAATACCCCTCTTGTTTTGAGTGGAGAAAATCAGAAGAAAGGGAGAGAGATCGGGGTGTGCCG
AAAGCAAAGCCAATGTGATCATCAAGATAATAATAGCCATACATTAAGGTAGTCAAGATCATAGACTTGAGATCTGAAC
TTGGATGGAGATGATGAACTACACAGTTTTAGTCTCATCAAAAAGTCAGCTACATCAGATGGAACTGAAGTTGTTTGTT
TTGTTTTACTTTTTGATGCTGTAATAACTCTGGCATGACTTTTCACAGCAAATTAGAATTAAGACCTTTTAAATTTGTC
CCAAATGGTTATTGATACCTGCAATAATACTTTTCCCCCTGGAATTATATTTTCCTCTTAAAATATATGTGTGTATGCA
TACATTCGTATATATAGTGTGTGGGTATGTGTTTGTGTGCATATGTGTGTGCATATATATATATAAAGAAAATAGTGTA
GCGGAAAGAACTCTGTTTTCTAAGTCAAAATATCTGATTTTGAACTTGGGGTCCAGTGAGCCACTTAATTTCAGGTTTA
ACTTCTGGCAAGTTTTATCTTCTGAAGCCAGAAGTCATTTTCTTTTAAAAAGAGGCAATACTTGTAACTCTTTTAAAGA
TCAGATGACATAAAAGATATGAAAATATAAACTATAACGTATAAATATACTGAACTGTAAAGTCATACAAATTTAAGTC
ATTAATGTTACTGATTGGAGTTCATTTCTCAGATTTCACATAGTTGTTGGGCACAGAAAATTTGGAAACTTTGGCTTTC
ATTCTTGCACAGACTAATTTAGCATCATATTCTTGTTCTTTGCTGATTTATCAGGTAAGGAAAAAGTCAAGTAAAATGA
TTTGGATGCCTCACTGCCAGGGAATGCTTGATAAATTAAAAGCCTGGCTTCCTAGGGACATTCTGACTACTGTTGTTTA
TAACCAAGATCTTTTGCAACCTTAGACTTCCCAGGAAAAGCCTGGGCTTTGTTGCTGCAGGAAGGAGAACAGGGAGGAA
AATATCTTTCAGATTTAATCAGTGAGAAACTACTAGGAATTAGCCACTATGCTAGGGAATACCCAATCATTATTTTGAT
ACTTTTGTAAGCTGAAGCATCATTTAGGGGCCTAGCAGGTTTGCTTTCTGATCATATTCAAAGCCTTCACCTGGGTGAA
CTCCTGTGAGAACCTATAATTCAGGGATGCTAAAGTCACCATGGTGACAAGAAGAACTCAGCTGGCTTCCTATTCAATG
CATCTCAGATGAAGGTGCTCACTCCAGGAAACATAAAGGATATCCATTAATTTTTAGCTTTTTTTGTGTGAAGCAAAGG
GTATTGCTAATATACAACCTCTGGAATAGACCTGATCAGTTACCCAGTCTCTGGAAGAGGGTGGTAATTGAAAAACTAA
TAAGGGCAGGCCCTAGTCTAAGAAACTAAATCTAAGACAGCCACCTGAAGTGTGAAGATGGAAATTGCAGAGTTGAGTC
TGGAGTGTTTTATAGGCTTATAGCTCTAACTTGCCTAATTGAACTTTTACAATTGAACTTTTACAAAGAAAGTGGGGAT
TTATTTATACTCCTACTCTAGGGGGCCACAAAAAAAAAAGAGGAAATGAGAGTATAGGAGATTTCTCTAGGTTATCATA

Fig. 6,212

AGAAAGAAGTCTGACAATACAATCCTTGTTCCATTTATCTTTTTATAATAAACCACAAAATATTTAAGAGCTGTTGGAA
TTCTTTGTTTCTTCCCCATGCTGGCTATTTTGCCATTCTCTTCATCTCAATACTTTGCTGAC AAAGTCTTGAAACCA
AAAATATCCCTACAATTCATGACCTTGAGTGACTTCAAAATTCAGTTAGACAAAACAGACAGCTGAGTTCTGTGGTTCT
CAATCTTTGTACTTTTAAAAGTATTCATGCTTTGGTTCTACCCACAAAGATCCTGATTTCACTGGGGCTGAAGTGTTGA
AAGATTTTATAGCCACCAAATCACCCTAATGTGCAATCAAGGGTGAGAACCTTATTTTCTCATATCCCCCTTCCTTATA
TCCACTGATCTTGACTTCAGTTTTACCTTGGCAATTCACCTCCATGGCCACACTCTGAACTTTGTCATCAGCCAGAACT
GCTCCAACCAACCTCAAAATCTTAAACTCAAATATCCCACACTCTAAGCATAGTTTTCTTTCTTTCTAGCTCCTCTTAT
TACGTTAAAGACCTAATAGTCTTATTTCTCAACTGCTTTCTTGCTAACCCTTCATTGTTCTCCTCATAAACCCAAACAG
GAGATAACAAGCCAGGATTAATCCACCTGTGTGATCTCCCCATTTTTAACCCTTGTGTTTCCAGAGAAAAACACAACCA
CTTACACTGGTGCCACAGCAAGTTCATACTCTCCAGACCCAATTGGATGGAGCCTCAATACTGCCAAAATCCCATTCAT
TTCTCTAGTCAGCCTTGTGTCCTTTTTTCCCAATAAAAACTCTGTCTCTTGGTCACATGGACATTTCCATCCTATTTCT
GTTTGAGGTAGAAATCTGCTCCTGTACCTTGAGTCCCACCTGCTTCTGCCTTTTCAGTTGACTTGCTCCTTCACCTGCC
ACTTGTCTTGGATCACCAGCTTTAGCCATGGACTAAGTCTTTAACATGGGYATTTAAACATACTTAAAACACTTCCTTC
AAAAAGCAAAGCATAACAGTGCTAAAGCAAATTTTCATGGGTCC CCTCTGCCTACTGCCTTCCTCCCTCTAACAGCCA
AATAATTTTGCATCTACTCTCAATTTTGCACTTTCCTACACCAAATATACTGACATTTTTAGTGCTAAATCCAGGAAAT
TTTTTCTTAGTCTTTGTTTTACTCAGATTCTCTTCAGTATTTGAAGAGTGTAGGCCACTCTCTGTGCATAAAACAGTCT
ATTCCTCCATGGGCTCCTAGCTAACAGCCTGCAGTTTGTCAGTTTTCTTTGGGGTTTCTTGATCCTCTGCCTACCACTG
AAATGGCAGTGTTCTTTYGTCAGCACTTTCTGCTGTTACCCCATATTCCAGAGGTATTTAGCCATGGCTATGCATCAGA
ATCACCTGCAAAGCCTTTTAAAATGCAGCCATCCGCTTGCTATGCTCGATCATCTGAATCAGAATTACTAGGGATTGGG
GCCCAGGCACCTAAGTTATTCAGAAATTCCACAGATGATTGTGATATGCTGGTGGTCTTCTTCACATCCATGCCTTCTC
AGGCATTCCCTTTATCAGTCTTTCATCTGGATATCCTAGACCCTAGGCTTATATTTTAGATATGTCTGCACAAGATGTC
CAAACTCACTGATGTGTCCAAGAGAGCCTCCTTGCCTCCATTCCCTTCCCATCTCATCCAATCTGCTCTACCACCTCCC
CCTTTTCTCCTCCCCCATATTTCAGTCTGAATGAGTGACATCAGATTTTATTAAATTGTACAAGCCAGAAACTTGATAA
TCATTTTGAATTGTTTTATTTATCCCTCATGTCCAATCAATTGTCAAGTTATATCAGTTTCACCTCTAGTATTCTCCAA
AGTTTTTTATATACATGGGTATTACTTTAGGTTAAGCTAAGTCAGTCTGTGTTGCTATAACAAAATACCTAAAACTGGG
TAATTTATAATGAACAGAAACTCATTTCTTACAGTCTGGAAGCTGGAAAGTCCAATATCAACGTGCCAGCATCTTGCGA
GGGCTTTCTTGTTGTGACATCATATGGCGGAAAGTGAGAGGGCAGGAGAGAGCAAGAAGGGACTGAACTTGCCCTTATA
AGGGCACCAATGCCTCCCATGAGGGTGGAGCCCTCATGACCTAATTACCTCTTAAAGGTCCCACCTCTTAATACTGTTA
CAATGACTATTAAATTTCAATATGAGTTTTGGAAGGGGAGAAACATTCAAACCATAGCAGCCACCATCATCTGTCTTCT
GAAATATTACCACCACCTCCTGACTGTATCCTCTGTGTTTGGCTTTGCTTACTCCCACTAATCTGTTTTTCACACAATG
CTCAGAACATTTTTTTCTAGAGGATAAATATGATAATATATATTTCCTGCTTAAGACTTTTCAGTGACTATCTGTTGCT
TTCAGAATAGAGGCCAAGCTGTAACATGGCATATATGGCCCATCAGAACCCGACGCCTGTTCTGTTCTTTTGTCAGGTC
CTCTCTTTCATTCTGCACACAGTTTTCATCACAATTCTCTGGCGTTCATGATTCTCTCTTGTCTCTGAGCCTTTGTTTC
TTTGCTGTTTTTGCCTAGAACACCCTCTTCCTCTTGGCTCAGGTCTTACATCTTCCATTCCTGTCAAGGTAACTCCTCC
TCATGTTCCAGCTCATATCTGATATATCATCTTTTAAAAGGATGTCTGCCTAAACCTGTAGAATGGGCTTAAGAGGGCT
TCCTGTTTATTCTCATACTGTGTACAATGAAAATCTACTCATTGATTTACTTCTCTCTCCCACCCAACTTTATGTTCCT
TTAACATAGAAACTTTTAGGCATCGAAGAATTCTTTTTTTTACATGACACATAAACTCTCAATGATTGTTGAAGGAATG
AAATGAGGAGTATTCAGAACTGTTAGTAAAAAAAAAAAATCRGAAAATAATGATCAAGAGAGGCTTTATAAAGGGAAAGT
CAGTAGTTGAAAAGCTAGAAGTAGAATGAGCTGACTGACTTGAAAAGAGGCCACTACTTAGTGAAAAGCACTTCATTGG
TATGGTAGGAGTTGAAGTCAGAATGCAGAAAATTGAGGAATGAGTGGTGTATGAGTTTTCTGCTGAAACAAAGTACTAG
AAACAGAGTGGTTTAAACAGAAATGTGTTGTCTCACAGTTATGGAGGTGAGAATTCTACGATCGAGGTGTTGGCAGGGC
CATGCTCCCTGTAAAGGAGCTAGGGAAGGAACTGTTCCAGTTCTCTCTTGTAGCTTCTGGTAGTTCCTTTGCTTGTAGC
AGCATCCATCCAGTCTTCACATAGTGTTCCTTCTGTGTACGTGTTTGTCTCTTCACATGGTGTTCTTTTTATAAAGGCG
TGAGGCACACTGGATTAGGGACCTACTCTCTTGCAATATGTCCTCATCTTCACTTAATGAATCATACCTGCAACAATCC
TATTTCCAGTAAGGTCACATTCTCACGTACGAGGAGTTAGGACTTCAACACATGATTTCTGGGGGAGACGCAATAAAGT
GTTGGACTTGGGTTTATTCGTGGTGCTATTATTGTCATACATTCATAGATCAATATTAGCTTTTAATCTCTTATTTTAG
AGTCCACATTGTAGCATAATATTTACTGTGGTTGCCATGGAAGAGAAGTTAGTAAATGACTTTCACTATACAGGGCTAC
CACACTGGTTTCCAAATTGAGCTCTTCAAGGTTGAAGATGGAGGACGATGGAGCTCCTCCACCACAGCACCCTCTCTTT
GCCTAATTTACCCATAAGCAAAGCAAGGTTTGAAATCCACCTATCTAAAATAAGACTTTTAGACATGTTGGAGGATATA
TTTTTAGTCATAATGTTGATAGCAAATAAGAAGAGAAGATACACCCTCAGCAATTGGAGACAAGAAAATCTGATGCATA
ATTTAAAAGAAGAAAACGACAAAAAGTACGAAATCTTATGTGCACTTATTACCTAATACTTTAAAATCTTGGAGATATA
TATATATATATATATATATATATGTAATTATTAGGTCTAAGTAATACACAAAGTTAAACCCTTCACTATCTTAGTTGGA
ATACGTATAGAGGTATAGATATATATAGATATCCTTTCCCACACTTATTTTAGCTCTTGAAATGCATAGAATAGGAAAA
AAATCAGAATTATAATCTCCATGGGAGCAACTTTATACCAAAAAACACAGAAGCAATTATATTTGAAACCTGCTAGAGT
ACAAAATTCTAGATTATCTTTAGCAGTTTACTTTTATTTTCATGGATAAAATTTGAAAAGACAAGGGCCAGTGACTCAT
TCTACCATTTGAGAGCATCGCTAGGGAGCATGACATTATCACAGAGACAGATATATGGTGACTTGGAAATTTTTTGTAG
GTAATTCCTATTCTTAAACTTAATATGAGTTGCCAATTTGGAACACTGCTACATTATATTTATCACAGAGTTATAACTT
TTAATGGTTTGAGGGATCATAGATCTGACCACATCAATATTTGGCTCATTTTCAAAATAGAAAGTGCTGAAACACCAAA
ATACTGAGCTGAATTCTTTAAAACTTTAAAGCTGAAAAACCACTCATGTACATAAAGTGAAATAAGAATCAACCTAGTG
TAAATGGCTGCATTTTTGAAATTCCATTGTAAATCTTAATAAAAAATATTGTTTTAAAAAGCCAGCATGTTTGGAAATG

Fig. 6.214

GGTGTAATTTGCATTAAAATCAGATGAGATTATTTCTTGGTTTTACTACTAAGACACATGGACACAGGAAGGGGAACAT
CACACACCAGGGCCTGTTGTGGGGTGGGGGAAGGGG[illegible]AGGGATAGCATTAGGAGATATACCTAGTGTTAAATGACGAG
TTAATGGGTGCAGCACACCAACATGGCACATGTATACATATGTAACTAACCTGCACATTGTGCACATGTACCCTAAAAC
TTAAAGTATAATTGAAAAAAAAAAAGACAGATTGTGGATGCTTATGGAAAATACGTTTACTTTTTCTAGACTCCTAGAA
GGCCATTTTGAGGACTTCTGTAATAATTCACTAAATAGATAGAAAACTGCCTAGACCTATACTTCGCTGTAAGATAGTC
CTCTTTTGGTCTAACCCTCATTTCTATTTAGCTAACTAGCTAGTCAGGAGTGTAAGGTAGGCAGTATAAAGAATTTTAA
ACTTACTAGGGTCACATTCAAAGTAAGCCTAGAGTAAAATCAGGAGATCAGATTACCCCAGCTACTGAGACTGAAATGT
GAACTGTATTGTTGAAGAGCTTTTCTTCCTCACAATTGAAGAAGACATAAAGACTGGTGATATAAGAGCAAATGCAGAC
ACTTTTGGTCACTGTTAGCTTGTTTTGAATGTGCTGACTGTGTCTGTGTCCATCTTGAAAATATTGAGGAGTCAGCAAA
ACATATTTGACTCTTTACCCACTTTTTCTTAAATGTTTCATAGTCATGAGTATTTCGTGGGGGAATTTAATCTATGTGC
CTATGATTCATTTACACTAGTCTCATCAAAATGGCATAGGGAGATATTGAATGGCTAAGAATCCTTAAAGTTTAAGAGG
CCATTTAAGGCTTTTATCTCTGAACCAGAAAGTCATAGTGTACCAGGACTACTCCCAATTCAAACATACCAGGGTTCAA
TTTTGTTTTGTCTAATATATCCCAGGAAACCTTACTGTTTGATTCATGATTTCTAACCTCAAAATGCTGGTCTAACATA
TGTATATATATATTAATGAAGTCCAGGTAAGAAGCGCATGGCTAGAATGGGAATGTTCAACATAAAAATATCCCAGCCA
GGCGTGGTGGCTCATGCCTGTAATCCCAGCAGTTTGGGAGGTCGAGGCCTGCAGATCGCTTGAGCTCAAGAGTTTGAGA
CCAGCCTGAGCAACATGGCAAAACCCTGTCTCTACAAAAAATACAAAAATTAGCTGGGTGTGGTAGTGCGTGCCTGTAG
TCTCAGCTACTCAGGAGGCTGAGGCCTGAGAATTGCTTGAGCCTGAGAGGTGGAGGTTGCAGAACCGAGACTGTGCCAC
TGCACTCAGGTCTAGATGATAGAGAGAGACCCTACCACCAAAAAAAAAAAAAAATGAAAGCCACATTTTGAATAACTAA
ATTTGAATATCAGCACAGTTGCCTGAGGATGTATCAATTTACAGATAAATGCCTTCCTACCAACTGAAGAATAACTAGT
GCTTTAAAACTTTTCATCCATTAAAGGAAAGTCACACTGAATTACTCCGTTGGTGTTGTGCGATATTCTATAGTTTTTA
AAATGCTTTAAAATACATAATCTTGTCTGATTAGGTAAACAGGATTGGTATTCTCTCCATTTCTAAAAGGGGAAAATAC
AATTACATAGAAGTTTGTATATTGTTGCTTTATGTGTAGTAACATAGACTCTTACAGTTCTGAGCTATGATTGTATGCA
ATAATAGAAGCAATGCTGCACATATCTCATATAGCTCTATTTTATTTTTAAATTCACTTTTCTCATACTTGTAAGAAAT
CTTTGACTTTGGTTTTAGTTAAAAGATAAAACAAAATCATAATTTCTATGATAATACAAAGCTTGAATATTATCATTGG
CATAAAATTCAGTTCTAATTTTTCTCCAAAATAAGATGCTTACTCCAATATAATTATCTTCCTTCTTAATTTTACATAT
TTGCATTTTAAAGTGGCCTATTCCTATGGGGCTAATGTCAGAGCAGAGTGTTCTTTGAACTCAATGTGTGCTCCCCAGT
CAGGTCAAGTCCAGTCAGGGCAGTGACTAAGAAATGGGTCAGAACTTACTTAAATTATGCAGTTGCCTGGAAAAAAGTT
CAACTTATATAATATATGGGAATATGTGAATGGAGAATGGCTTCCCCCTTAATGTGTAAACTGTAACTCAAAATATTTT
TTTGAGTTATAGAAAAATTTTTTTGTAAAAAAATTAAGAAAAAAGTTTTTTTAAAAATTGAGCCAAATATTAAGATAA
TCTTCATGGTGAAGCATTACTAAATTAATTTAACGGCAGTCTTAATGTAATGTAATTTTGGTTTACTGATATGTAATCA
GTTAATCTTGAAGATTTCATAAGTTCTGGCATTTGTTCTTTCCTCTTGTTTCTCTCTTATAAATTGGTCAATTCTCCAA
AATATGCAAATTAAATTTAATGTTAACCTATGTGTAAGTCAAGGCATGTGAATCCCATGACCAAATAAATATTACAAAG
CAGGTGTCTCTACACTGATGCTGAATACCTACCATTTAGAGAAGACAACTCTCTTCCCCAGGGTCTCAAGGCATCTCAT
TCCCCTGGCTTTCCCCCTTTTCCCTTGAGGACTCTGCATCCTCCTTTGCTGCATCCTCCTCAGCTTTCCAAAGTCTTAG
CATGGACATGTCCCAAGCTTAGTCCTTGCAGTCTTCTGTCCTCCTTCTGCGTATCTCTTACACCTCATCTAATCACAAG
ACTTCAAAGTCTATATGCCATTGTTTGTCAAGTCTCTACCGATCTGGATCTCTCACCTGATACAGACTTTCATATTCAA
CTGCCTTCCTGTCATTTCCACCATGATGTCTCCTCTATACCTGAAACTGAGCATGTCCAAAACCAAAGTATTGCTCTTT
CCCAGCAAACTTGCTCCTCCTGGAGCCTTCCTGATCTCAGACCAAACTTTGTTGTTGTCTTTGACTCTTTTTTTCCTCA
CACTCCCAATTCCAATCCAATCAGCAAATCCAGCCAGCATTCTTTCAAAATATAACCCAGAATTTGCCCATTTCTCACC
ATCACCATGGCAACCAGCTTGGTTCCGGCCACCAACTTTCCCACCTGTGTTGCTGCACCACCTCCTGACCAGTGTCCCT
GCTTCAGCCTGTTTTGCACCCCTCAGCAGAGTGAGGCTGCTCCAGTCTAGGTGGCATTAGGTCACTTCTTTGCTCAGAA
TACTTCAGTAACTTCTGATTTTCCTCAAAATGAAATTGAAGGTCTTTATAATAATCTACTATTTTTTCCTGTGGCCTCT
CAGATTCAGCTCCTACTCCTCCTCCTCTGGTCCAGTCACTCTGGTCTCCTTCCATTCCCACAACTATCCAAGCAAAGTC
CTGCTTCAGGTACTTCATGTTCTCAAGTCCTTCAGCCAGAACTTGCATCAGCCTGATATGCCATTGTTTTCTTTCCTCA
CCTCTTTCCATCCTTTATTTGGATATCTTCAGAGTGAGGCTATCCTTTTATTTTGTTTTTAATAATTATATCTTCACCA
TGCCTGTTCCTGGCATTCCCCATCCCCTCTTCTTTTTAAATTGTTCTCCCTGCAAACTGTTATCATATAATCCTTATAT
AGATTTCACTTTTTCTTTTTGTTTATTTTTCATCTCTCCTACCACGACTCAAGAGCCCTAGTTATTTCATAGTTCACTG
CTATATCCCTGGCCTTTAGAGTTGTTCTTAGCATATGGTGGCAGTCAATAAAAATTTGTTGAATAGATAAATAATTACT
GTCTATCTTCCTCTCCTTAGGTAGAAGCAGGCTATATAAAATATAAATTATTGGATTGTCAGACTTGCCCATATTTATA
TTCAAATACGATAATCCAACTTGGTTGTTGGAATCTGTAAAAAAAAAAAATTAGAACATCCATTTTTAAAAGATTGAACA
AGCAGTAATTTTTTTCCAAATCTAAAACAAACAAACAAACAAAAAAAAAAAACAGTGTCAATCAAGGAATCAGAATATAT
ATTGAATTAATTGTTTTTAGGTCATTAGTGAACTTGACTGTGCTGTTGCTCTCAAAGCACTAAAAATAGCTGATATCAA
ACCAAAGGTCCTTCATGATCCTTGAAACTTCCTTGCAGTTCTAAAGAAAAACTCAAGCTTATAGGAAGAAGTTTTAATG
AGACATTGTGCTGTTCAGGAGAGACAAAATCATAGTTTCTGACCTCAGGGGCATTGATAAAATAAGAGAGCAGAAGCTC
TAGGGAAATTAGTTTTTAGGAAGTGGAATCCGGTGGCTCATTGCACATTCTAAATAGCATCAGAGTAAGAATGACAGTC
TGGCTGATTGGCTTTAGTGATGTGGATAGATTTGGCTGCTATATTATCAAAACTGGATTGAAATCCCTCAATATCAATG
AAGTTTTACAAAGGTATAAGGACTACTGGGCCACAGTTCATTCTAGGACTTCATTTAAGTGACAAAGTAAGGTGGGCCA
AAGTGAGATTGGGACAATAAGCTAAGTAATCTTAAATTTGTTCTTGTGTCTATCCTGATTTGATCAATCCACAAATATT
AATATTTATGGAACATTTACTGTGTACCAGGCACTGTGCTAGGGAGATTGTGTAACAGTGACCACAGCAGATGTAAACC
CTGCCCTTAAGAAGTTTGTATCCTAGTGTGGAGACGGCATTCAGACAGATAAATGAATATACAAGTGCAGGTTGTGAT

Fig. 6.215

GAGTGTTACAAGGGGAAATACAAGGGTGCTAGGGGAGAGAACATGAGCCATATGGGTTAAACCAGGGCTATCATCTGAC
TGCTTGTGTCCTCCCAAAATTCTTGTTTTGAAATCCTCACCCCCAATATCATGGTATTAGGAAGTGGGGCTTTGGGAGG
TCATTAAGTCATGAGGGCAGGGTTCTTACAAATGGGATTAGTGCCCTTATGAAAGAAGCCTAGATCCTTTTCCCCTTGA
GCCTTGTGAGCTTGCAGTGAATAGATAGTTGTCCATCAACAAGGAAGTAAACCATCACCAGATATCCAATCTGCTGATG
CCTTCATCTTGGACTTCTTAGCTTCTAGGACTGTCAGCAATAAATTTCTGCTATTTCTAATCTACTCAGGTATTTTGTT
ATAGCAGCCTGAATGGACTAAGACAACCAGGTTGTCATTAAAATCTACCCTGAAGGTTCAGTACGAATCCATGATGTAT
TTGAATAAGATTTGTATGTGAATCCTCTGTAAGGACATCCAGATTTGTGGTCTAGATCCCATTTCTTCCCACTTTCTAA
GAGACCTTGTACCCCTAGCCCCTGTTTCTTTCTGCCAGCATTTTCTGTTTTTCTCCACTGACTCCTTACCTTCTGCCAT
TATCAAGTTTTACCTATTTTGAAATATAAATATCACATTTAATTATTCTCCATAGCCTTACAGACTTCATGTCTTCACC
ACTCAAAACCTCATGTAGTCTCCTTTTCCCCCTCGTTTACTTATTGTTTCATTGAGGTGTATTTCAATGGGTTTGAGGC
ATGATCCCATCCAAAGGACTAATGTGCATATACTCAAAATGTTAATTCAGCTGAACTGCTCACATCTTTGCTTCATTGC
CCATGTCTTTTTGCACTGAATTGTAAGCCACTAAGCTTTGAATCAATGAACATTTTAAAATGTTATTTGTATAGTGTCT
AAAAACATGTGGCAGTTGAGAATAGATTAATCTGTTCTAGACCAAAATAAGATCCTGGTGAAGAGGATTTTAAATTCTT
GAGTTGAAAGCTGATCAAGGTGGAACCATATAATGCCACATGATACAGTGTGATGTCAGATAGATTATTGTAACAAACA
CATAATTAATTAGTAATGAAGTAATAGGGTTTTAGATGTTTAATCTTCAAGCTGGTAGATATAAATTAGGTCACATTAA
AATCAGTTCTCCAGTCTCAATAGCTCTATGCTCATATTCTCCAGCATAAACCTCAGTAACTCACACAACCTCTTTCACT
TAGCATCTCTGAGACTCTGGGGGGTGCCTTGCAATTGCCCCTGCATGGATCTGCCCAGGATGTCACTTTGTACTGGTCT
CTGCTCTACCAGTGACCTTGACCCATGTTCATTAGTCTCTTGATTGCCTAACGGCAGACACCAACCAGTTTGTTCCAGC
TATGAATGTTCTCTGTTGTATCTAGGGCAGTACCAGAACACTATTCACCTGCAGAGTAGAAAGGAGAGTACATCTCCCT
TCTTGCTCTCTCAGGGGAAGCCAACAGCTGTGCTGCTTCTGGAGCTCTCAAATTCTAGGAATCTAGTGAAAAAAGTTCT
TTCAGTTCTCCACACAACTCTTTGTATTTCCGGGATATGATTAGGAGAGTTCATATGCCAGTCACCACAATCTGCCAAG
AACCACTACACCTTTCAGGAAGCTCAGAGTTTGTGGCTGAGGTTCGGGTTATTCATACCAGATTCCTTTTTTCTGTAGA
GTGAATTCTTAGTCAGAGACCCATTTTCTGTTTTAGTGAGAATGGGCTACAGGAACAACACCAAAAGCTCAGTTGCTTA
GAAGAGTAGAGGCTTATTTCTCACTCAAGCTACATGTTCATGACAGGTTTGTGGTGGAGGGAGAGGGTTCTGCTCTTCA
CTTAGGAACACAGTTAATGGGAGACACCACAGTCGGGAAAGTTCCCAGTCATTGTGGCAGAAGACAGGGCACTTCATAC
ACAGACCTCAGTGGTTTCCCCCAGAAGTGACACGTATTGCTTCTGCTCACATATCTTTTTTCTTTTTTGTCTTGTTTCA
TCAAATCATAGTGATATTCAGATTAACTACATATATATATGTGTGTGTGTGTGTGTGTGTGTACATATACAAATTAGAG
AGATATACGTGTTTCTCATGCTGCTCACATTTTATTTGCCAAAGTAAGGTTACCATGCCTAACTTCAAAGGGGCAAGAA
AGTGCAATCTTGCCATGTGCCTTAAAGAGGGAGAACTGAGAATGGTGACGAATAGCACCAATGATGAGTACACCTTCTT
CCTTGAAGTTTTGCATCTATATCCTTCTACTTCCCATCCAATCCTGCCTTTTATGACATATCTCTCTACATATGATCTT
CAATCATGTAAATTGCTCAGTATTTCTCTATATTAATTAGTGGTTCTGGCTAAGGGTCTCTCACGAGTTGTTGGCTTGG
GCTACAGTCATCTCAAGGCTCAGCTGCTTCCTCAGTGACTCATATAGTTGTTGGAAAGCCTCAACTCCTTGCCATGTGG
GCCTCTCTATAGGGCTAACCACAGTATTATAGCTTGTATCCCCCAGAGTGAGAGATGAGAGAGACAGATAGGCAGACAG
AGACGGAGACAAAAGACAGAGACATCCCAAGACAGAAGTCAAACACAGTCTTTCATAATCTCTTCTTGAAAGTGACATG
TCATCACTGCTGTCTGATAACCAATCCTGGGATAGAGTGGGAGGGGGACTCTACAAAGATGTATGTTAAATGCCAGGAG
GTGGGAGACTTCATGGAAGCTGGCTGCCACTCTCATTCAAGAAGGCTACTTACTCTTATGTAAATCTTGGCTGCCAAAA
ATTGCTGTCTAAATCATAGCTTCTTCCAAGTAGCATACCCAGGACAGGGTAAATGCAATTTAAAACTTCTCTCAAGGGG
GTTACTTCATTTAGACTAGTGTTGGTGTTCTCCTATGCAATTAAATGGTTCTTGTGTCTTATCATTTTCAATGTCCAAT
ATCCAAGGAAATACATGCACTCATCCACAGAATATTTTCTTTATTTTTAAAGTTTTAATGCTGTTTTTAAGTCCCTTGT
GTTTAGGTGGTTGTTATACTTGAAATGTTAGCAGACATAATACACAGCAAATAAATTCTTGATGGTTTTGCTTATCCTC
TTCTCTAGAAGCATGCGCTGTGTGAGCTAAGTGTGACTTTAAATAGGACATAGGGAGGAATTAGAAATAGAGGCAAAGT
GGCAGAAACCCCACATTAAAATCCATCCTTGTCAGCACTCTCTGATTTCACATACCAGGGTTCTTTTCGGATTAATCAA
AAAATTGTTGAAACGTGTTAAAGGAGAAATGCAATTCTGTAAGGGGAACACAGTTCCTATTTGGAGGGAAGGAATATGT
ATGGCCACTATAATAACAAATTAGGGGAAGGCATGTGTGAATTTTTATGCACTCATCGTCCTATTGAGCACAAGTAGAG
AGGTTTATTTTCTTTTCTTCATTAATTGTTCTTACAGAAATAAACCACACTGTGTAGGAAACTAGGCACTCTTCCCTAC
CTACTCCTGCTATTGAAAGAGCCTTATCTATGGAAATCCTCAAATCAGCTTCTTCTTATTGTACCAGTGATGTCTCTTG
GATTAATTCAGACAAACTGTGCAGTGTAACCAATGCAGACAGTATGTTAGAAGCGCATGGATAGCTTGCTTCCTTTTCA
TTCCTTCTTCCTTCCTTTATTGTTTCCGCATTGTGGTTCCTTGTATCCTACCATCTTGAATCTCTTGTACCTCTAATTA
TAGTATGCTCACTATATGCAAGGTTTCTCCTCCCACCTACCCCCTGCTGCCTCCTCTACTGACATCTCACTTCATTCCC
AAGAAAAACATTGCCCTCCCCTCCAAGCTCACTGTGTTTGCATTTCTCTGCTCTTTTCCGCTCTCCTCCTTGGCATGCT
GGTTTAATCAATTTTACCAAATGACTTTCCTGGCAGCTGTAAAAAGAAAACCCCAGAGCAAGTTAATAGCAATCTAATA
CTGCACTTTCTGTCATTTCTCTAAAACGTACAGAACTATTTGGTCATTGGATTGATTTTAATGATCTAAATGATCAGA
TGTTTCAACGCTGCACTGCAGCAGCCTGATAATAAATAGGAAAGGGGAGGGGCATGGATGCTGGGCACTCAGTCAGTGC
TAGATGAATAATCCTAAAACAGCAGCCAAGGAGACAAGATAAAATGTCAGCCTTTGCCAAATCATATATTAGCATTTTT
AAACAAAGACACCTCTTTATTTTGATTTTGCATATGGGGAACTAAAACAAAATGTTTTTGATGAGGGTTTAGGAAGTCA
TCAATAGGGTTAGGAATCAAATTACAGCCTAATTCTACGCGTATCTGTTGACATAAGCAGAACGTCAGTAAAGTGCCTC
CCAATATCTCTAAATAGCCTCTTGGCATCTGAAACGTAGGGAAAAATATTGGTTACTTTTTAACCAAAAGGCACTAAAA
CTTCCAAAGGTATATGAAATCAGTAAATTATAAAACATGTCCCCTTCCCCCCCTTCTGTAAGAAAGAAATAGAAAACAA
AAAGAGAGATGAATATGGGGAAAATAAACAATGAAATAATATTATGAATTAATTGTAAGACTTGCTAACTGGCTGTGTA
ACTTTGGGTGATTTGCTTAACTATTCTGTGCTTTGTTTTCCTCACTGTAAAGTGGACAAACTAGTAGTACTTTTGTGGA

Fig. 6.216

AGATTAAATGAGGAAAGGCAAGTCAAGTATTGAGCACAGTGCCTGGCATTTACTACTTACGAAGGTTATGTTCTTTATT
ACTCCATCTACTCTTTCCATAATTGCATCCCCTCCAACCAGTCCTGTCCAGCCTTCTCCGAATCCACAGGACAATTCTG
GTCTCCCAGTATGGTGGGCAAAGGTAGGTTTTGGTGTCCAAGCACAGCTCAGCCATTTACTCTCCAGGTCCATGGGCAA
GTAACTTAACCTCTCCAGGTTCCTCAGATTCATCATCTATAAACTGGGGAATATTAGTACATGCTTTATAAGGTTATTG
TATTAAAGGAAATAACTTGTCTAAGTCTCAATGCACAAAGTCTTCCCCAGAAGACAGACTTGAAAAAATATTAACTTTA
TTTCACTCTCCTCCTGCTGCCATTTCCAATGTGCTGTTGCATGTTTCTAAATGGTATGTGGAAGAAAGCTGATTAGTTT
CTTTGCTAATTATTAATTGAATTCCTTTAGTTAATACAATGTATTCTTTTGAGAAGCTCAGCTCAATTTATAGTGCTAG
AAACATACAAATACAGAATTTATACGAGTTGATCTGGGGTTCACATAGATGAAAGGGTGTTTTCCTAGCACATTGCTCT
GAGAATACTGTAACACTCTTACTTCATGTATATTCATGTATATACATATGTATATATCTATATATGTCTGCATCTACAT
ATGAATATATGTATATCAACTGTTCTTATTTAGTATAGTTCTCCCTGAAAAAGAAGGTACTATTTTATTTTTAAATATT
GGATCTTATTTTTAATATTGGATCTATCTGTAATAAAGTAGCCAAGTTAGGCTGACTACCTGTCTAATGAGTTTCCCGT
TTAGATGGATTAGTTCCATTTAGTCTGTTCCATAGCCCAGATCAGACAGTTCACTAACAAATACACTTAAATTCACATC
ACTTTGGTCCAGAGGGTGTAACTAAGGCCCAAACCTGCTTCTGGTGAAAGTGACCCAGAGGTACGCTTTGCTGATAATA
TCAGGAGCATGGTCTTTGTAATTGGAAGACACTGTCTCCCATCTCCCCATTTGTTATTGCAAGAAAATTAGATTCTCAT
TGAAATAACAGGCCCAAGAATTATAGTAACAGGAGTTTGAACCCCTGTTTGAGAATGTTGGTACTCCTGGGATAAATGA
GATCAATTTTAGCCTATAATAACGGTGCTTTCTACACTTTTTAGATGTTAGAGAAAGTCTGGCAGCAAAGCAAAGCTTT
GTATATACCATGGGAGGCAGGGTTGGAGAATAAAAGAAGAAAGAGAGACTTAAGAACAAAATTGTGTTTGATGGGATGT
TTTGATTTTCTTTAAATACTTTAAGTCTCTAGAAATAACAAATTTATTATCTGAAATACAAATAAGAAATACTTATATT
TGGAAAGTTGATAAAACTCAATTATTGTGTAAAATGTTCACAAATTTCCAATGGATAGAAAAAAATAAACTTTTGCATT
GCCAATTATTGAATACTTATTTTCACCTTTGGAAATAGCAAGTCAGTTACAAATTTTATAAATCTATATAATTGTCTTT
ATACATAATAAAAATATTCTGATGTTTTGTCAGCCAATATGCAGTTTTAAGCACCTTCAACCCTGTTACATGTTTACGG
GTTTGGAAGTTACTGGGGAGGAGGTAGAAAGGTCTGACCTTCTCCCCAGGAATTTAATATCTGGTCAGAGAGAAAGAAA
CAGACTTTTGTTGTTGTTTTGTTGGTCTTATAAACAGTGCCAAAATGAATGTGTGTATGTGTGTGTATGTTTGTGTGCA
CTTGAGCAATCATTTTTGTAGGATAAACTCTTACAAATGTAATTGTTCTGAAATGGTATGTATGGTTTACATTTTTAAA
AATTTGCTAAATTGTACTCCAAAATGTCTCTCCTAATCCATGTTTCTAACAACTGTGTATGGGTGTACTGTTTCCCACC
CCCTCACAATCTGCATATTTTTAGTCTTTTAAAAAAAATCTTAAACGAATGTGATAGGCAAAATACCTCATTGTAGTTT
GATTTATTTTTGGTTATCAGTGAGATTGAAGATCTTTTCAAATGGCTTTTGACTATTTATAGTTCCCCTTCTGTGATGG
TTATTTGCATCCATGTCCCATTTTTCTTCTGGGTTATTGGTCTTACTCTAATTTATAGACTCTCCTTAAGGCAAATGAT
ACCAAAACCATACCATGGCTGTTTACAGTCGACCCTCCCAGCTTACGTTGCATTAATAATTGCTTCTTAGAAGCTTATG
TTATTCATCCTTCTCCTATTTCTACACTGCTGTTTTCTTGCTTCCCTAATTTAACATTCTCACCATTGCAGTCAGCAGG
TTAAATGGCAAACATCTGAGGAATCAAGGGAAACAACTATGCATTGAGTACTTGCATGTGCTACATGATTTAATCTATA
CCTTCTAATGTAATCCTGAAGAAATCTAGGAGATATGTATCATTGTTTTCCAGACGAAAAAATTAAGATTTGGTTAAGG
TTGGGAAATGAGACTAAGTAAATAAAGTGGTAATAAGAGACTCAGGTCTGTCCGATGATACTAAAAGCCTGTGCTCCTT
CCAGAAAACCACGCTTTCTTCAGAAAAACTGTTTTTACAAGACTGTATTCAAACATATGGCATGTCTTGATATACATCT
AAGTAAATTTTAAAATTATATCTATATTCTTAACTGTCCAATAAAATTGTGTATTTATCATTTACAACATGATGTTTTG
AAGTATATATACATTGTAGACTGACTAAATCTAGAAAATTAACATGCATTAACTCACATGGTTATTTTTGTGATGAAAA
CACTTAATATCCACTCTGTTAACATTTTTCAAGAATACAACATATTGTTATTGACTAGAATCACCATATTGTACAATAG
ATTTCTTGAACTTATTTTTCTTATCTAACTGAAATTTTGTTTCCTTTGATCAATATCACACTTGCACCTCCATTTCCAG
TTGCCCCAGCCCCTGGTAATTACCATTCTAATCTCTAGTTCTATGAGCTCAACTGTTTTAAATTTCCCATATGAATGAG
ATCATGCAGGATTTATCTGGATATATACCTAGTAGTGGGATTGCTGGATCATATGGTAGTTCTATTTTTAATTATTCAA
AGAACCTCCATACTATTTTTTATAATGGCTGTACTAATTTACATTCCCATCAACAGTGTACAAGGGTTCTCTTTTCTCC
ACATTCTTGCCAACACTTAATATCTTTTGACTTTCTGATAATAGCCATTCTAACAAGTATGAAGTGATAGCTCATTGTA
GTATTAGTATGCATTTTTCTGATGATTAGTGATGTGGAATAGTTTTTCATATGTCTGTTGGCCATTTGTAAGTCTTTTG
AAAAATGTCTTTTTAGTTCCTTTGCCCATTTTTCAATAAGGTTATTTTCTTGCCATTGAGTTGTTTGAGTTTCTTATAT
TTTTGGATACAAATTCCTTATTAGAGGTATAGCTTGTAAATATTTTCTCCTAATCTGTAGGCTGTCTCTTCACTCAGTT
GATTATTTCCTTTGTTGTGCAGAAGCTTTTTAGCTTGATGCAATCTTGTCTATTTTGGCTTTTGTTGCCTTTGGTTTTG
GAGTCATGTTCAAAAAATCATTGCCTAAATCAGTGTCATATAGCTTTTCCCCTATTCTTACATTTATGTCTTTCATCCA
CTATAGGTTGATTTTTATATATGGTATGAGATAAAGGTTTATATTTATTCTTCTGCATGTGGATATACAGTTTCCCAG
CACCATTTATTGAAGAGATTGTGTTTCCCCAATGTATGTTCTTGGCACCTTTGTTGAAAATAAGTTCACTGTAGATGTA
GGGGTTTATTTCTGGCTCTCTATTATGTTTCATTGGTCTATATGTCTGTTTTTATGTAAGTACGATGCTGTTTTGGTTA
CTACAACTTTGTTGTGTATTTTGAAGTCAGGTAATGTGATGCCTTTGGCATTGTTCTTTTTGCTCAAGGTTGAGTTGGA
TATTTAATGTCTTTTGTGGTTCCATATGAAATTTAGTATTGTTTTTTTCTGTTTCTGTGAAGAATGGTATTGGAATTTT
GATAGGGCTTATAATGAATCTGTAGATTGTTTTGTAGATTGTTTCAGATATGGACATTTTAATATTAATTCCTCCAATC
TATGAACACGAACTATCTTTGCATTCATTTGTGTCATCTTTAATGTTATACAGCTTTGTAACTATTATAAATGGGATTT
TAAAAATTTCTTTTTCAGATAGTTCGCTGCTAGTGTATATCAACACTACTGATTTTTGTATGTTGATTTTGTATACTGC
AATTTCTATTATAATGAATAGAAGTGGCAAGAGTGGCCATCTTTTCTTGCTCTGGATCTTAAAGGAAAAGCTTTCAACT
TTTCCTTGTTAAGTATGGTGTTAACTATGTGTTTGTCATATATGGCCTTTGCTTGTTGAAGTACATTCCTTCTATACTT
AATTTGTTGAGGGGTTTTTATTATGAAAGGATGTTCAATTTTGTCAAGTGCTTTTTCTGCGTCTATTGAAATGATGATA
TAGTTTTCGTCCTTTGTTCTGTTAATGTGATATATTACATGTATTGATTTGTGTGTGTTGAGCCATCCTTGCATCCCTA
GGATGAATCCCACTTGATCATGGTGAACAGTCTTTTTATTGTGTTTTTAAATTCAGTTGGCTAGTTTGTTGAGGATTTT

Fig. 6.217

TGCATCTATATTCATCAGAAACTTTGGCCTGTAGTTTCTTTTTTTGTAGTGTCCTTCTCTGGCTTTGGTATCAGGGCA
ATGCTAGATTCGTAAAATGAGTTTGGAAGTATTCCACCCCATCAAGTTTTTGAAAGAGTTTGAGGAAAATTGATATTAG
TTATTCTTTTAGAAAAATTTCTATTAACCTAGCAGTACAAGTTAGCTAGTTTACACTTGGGGCTCTGAGGAGATGTAAT
GGAGAAAGAGCTGAAATTGGGGTTCAGATTTATAAATCTCAAGTTTTGGTTGAGCACGAAAGGAGAGGGAGTGAGACTA
ATGATAAGAAGGTTAAAGTAATCACTGGATTGATTTGGGATGGGCAGTCTCAAAAGTGCTGAGGATTCAGTTCCTATTT
CAGTGAGCTGGAACACACAAACATAGAGGAAAAAGAAAGACAGTTCAAGTATAAATTTGAATATACCTAAATGTGTGTA
AATTACGGAAGAAACAACTTCAAAAGAAAATAACAACAATGACATGGGCTACAGAACAGTTAAGATTAATGATCCCTCA
TTATAGGGTGCCATTCAGACATAGGAGTTAAAAAAAAAAAAAGCAAACCAGAACCACACACTGCAGCAGCTCCCCAGTT
GCAAGCACACTGAAATAACAGAGGCCTGCCTTCACGGGAAGAGGATTAGTTCTACTGTGACCTGTTTATATAAAAACAA
TGTTGTGGGTAGCAAGATTACTAGAAATGACTTCTTGGATTATAAAGGACAATTATGATAGCTTAGGCCACTAGCTTTC
AGTACATTCCATCTGGTACGTTACAAATTAGCTCATTATTCTGCTGTTCTTACGAATGTGTTAGTCTGCAAACATATCA
TTGTCACAAATTAGTCACCTAGTGTTTCTCTGAAAGTGATTTAATATAAGCACACCCACATCATAGGATGGAACAGTAA
AATGGGTCCTTGCTAGATCCTCCAAACAGAATTCAGCATAAAGCACAATTCAATTTCCAAAGGTTTTTGGCACATACAT
CATCTTCTGATTTTCTAAGATGAAATGTGATTGTTGCCCTGGATATTGGTAATACATTGTAATATTAGAAACCTCTTGG
GTCTCCCCATGAACTCTAGAGATCCAAGCCTACTGAGAAATGATGGGTCCACAAATTGAGCATAGCTTTTATTTGTTTT
TATTTACATTTGTTATCGCAGGTGCTATCACAACTGTTGTTTCAATAATAGCAATTTCAATTTGAAAATTAACTTAAAG
ATCTTATTTTGAAGTGTGTTTTGTAGCAGATGAGCTCACCCACCAGCTACTTGGAAAGAAGAAGAAAAGTGAGGAAACA
TAAACTTCCTCTGCTGTCTAACTGGATTACCTACTGAGACATCCCCTTGTGTGGGTTATAATAAATATTTATGGTAAAC
TTCTTAAGTTAAGATGCCTTTGGTTGCAAGTCTGGAGCCCCCAACTTAATGGCTTAACAAAAACAAATGAGGAAAATGT
ACTGTCTTATAACATGAATTTTCAAGGTAGGCTATTCCAGGGTAGGTTATTAAGAGGTTCAAACACATCACCCAGGTTC
TGCTTTGCCATCTTAGCACTTTGTCCTTTTGCTCAGACTTACTCTCCTCATTTACACAGGATGGACAGTCATAGCCAGA
CACCAGGACCAAAGGCAGAAAATGCACCCTTTCATGCCTGAGCAAGAACTTGTGAAGATATATTTTTAAGAGAGAGAGA
ACTGAGTAGTGCCGTGAGTCCAACCCTACCCTCTCTTAAAGCGGGCTGCAGTTATCTAACTCACATTAAGCTCAAAGAG
AGACCTGGCCTTCAGCCATTTGATGTCCTTCCCAAGAGGACCATCTGGGAAAGCCAGTTTGGCTCCAAGAGCAAGAGTT
GGTAGGGATGGAACCACTAGAAAACCAAGGCCTTGATGGGGGTGCTGGTTAATCAGCAGCAATTGGAAAACAAGGCTCT
TGCTTGAGTCAAAGGAGTTGCAGCCAGAGGACCCAGCAGGGATACCAATTATGAACCCACAAAAGTACCATGAGACAAA
GAGGCAGCTTTCAACATCTGCCAGGTCTCCAACATGTGATGCCATCTTACGATGGCACTAATTCAGGAAAACAAAACAA
AACTCTTTTCTTCCTTTCCTCACCACTTTCTGTGCCTTCCAATCCCAGAGGAGTCAATACCAACGGCTAGCCAGCCTGG
ATAGCCAAGGAAGGGGAAGAGCAACCCAGTCTCAATGCCACCCACTTACTCCACTGCACACAGAGACTCTGTGGTGGGC
CCAGCTGGGAGAGGGGAGAAAATGTAAGTTCAATCAAGTTTAGAGTTTTGGGTTACAATTTGAAATGGACATTCTAATT
TCTGGATAGAGTCTGAGATGATGGTTTAGCATGAATGCAAAGGTCTCTATTGCCTAACAGTACCCAGAAAAGTCATAAG
ATGTTCTTTATAAATAAAGTTTAAAGGGACAGTTTGAAAGCAAATAAAATGTGTTTTACACTTTGGGAGACCAAGGTGG
GCGGATCACCTGAGGTCAGGAGTTCAAGACCAGCCTAGCCAACATGGTGAAACTCCATCTCTACTAAAAATAAAAAAAA
AATAAATAAATAAATAAAAATAGCTGGGTGTGGTGGTGGTGCCTGTAATCCCAGCTCTTTGGGAGGCTAAGGTAGCAGA
ATCACTCAAACCTGGGAGGCAGAGGTTGCAGTGAGCCAAGATTGCGCCATTGCACTCCAGCCTGGGCAACAAGAGCTCA
AAAAAAAAAAAAGAAAAAGCAAAAAACAGCATTTTGCTATCTACTACATGTCCTCATTTTCAGCAAATATGTTACAATA
TTGATATCCATTTACAAATATTTTTAACTACCTTGACAATACCATATCATATTTGTATCTTTCTTGCGTGCTTCCCCTT
TCTTACTCTAATATTTGAGGGGAAAATTATTTATGCCTCCTAGCAAATATGCTTCTGATCTTTAAAACACCTCTGCTCC
AGCAAATGGATCCCAAAAGAGATGTGCATTCAAGGTGTGGAAAACAGCAGGTCACTGGGGGGAATGGGAAAGTTAGGAT
TTTTATTTTTTATATTGCTAGAGACAGGGTTTCATTTTGTCACCCACTGCAGCCTTGAACTCCTGGGCTCAAAGGATCC
TCTTGCCTCAGCCTTGCAAAGCACCGGGATTACATGTGTGAGCCACTGCACTGGCTGAAAATTAGTATTAATAGTAATG
TCCTTCTGTCCTAGTCCACTGTTTCACTTTCCTTTTTCTTCACGGCTTCCTCCTTTAGACTCCCTTGGACTGGGAGTTT
AGCACTATCACCTGCACACTAGACCTGCAGTCTATGAAGAGAGGCTGTCAGGGATTTGGGGCTATCACAGTTGCTCCTC
CCAGAGCAAAAAATATTCAACCCTCCCACACACACAGGCAGCAGCCTCATCTCAAATGGACTGTGCCTCTAATCAGTGA
GTGGTTATGGAAGACGAGGAGAAAAGTGCATTTATATTTTCATTAACTTTGTTCCTGCTTCCTGTAGCATTTTCATTTT
GAAAATGAGTTGGGAATTTCAAACATCAATAAAACGTGCTGAGGATTCTGACAACAAAATCCTTTTTTGTCATGTGCTA
TGTTGCCCACTTCCTGCTTTTTATTTTTGCTCCAGTCCCTGTTTGATTGCTAATCTAAAGGGAAAGGGAGGGTCAGTGA
GAAAAGAGGAGAAATCTTAAAAATGAATTTACTATTTGATCAGGTTTGCTACTTTATTTTGTGGAAAATTTTAAAGCTC
TTTTGTGTCTTTATGTATTTTACAAATCTTGGAACTAAAAACAACAGATAAAATCACATTATATTCCCCATTGAATTAT
TTCCCACATTTCAAATGTGCTTCCCAGAGAGAAAAGTATAAGATACAGAGCTAGGCAATTCAGTTTCACATTAATAGTT
TTGTGTCTCATCAGTTTGGGACGTGTATTGTTCATGTTTTGCTTTGTTGTGCCTATTAAGTGATTTATATAGTCTATTG
CGATTTTTTTAGGAATGGAATATGCCAATTATAGAGAGAGGTAGGCGAGTTAAAAGTTTCAAGTGCTCAGCATTATAGA
TTCACCCCTCGAGTCAGAATGTTAAAAACAGCAAGGAAGAGTGTGTAAAATGCTAGGTGAATGAGAGGGCATCTGTCCAC
AATGGGCAACTAGTATTTAATAACTAGCCTTGAATTTATTCTACACTTGAATGCAAAGATTATTCTACTTAATTATACT
ACAGTGACTTTGAAACTATTAATTATTCTAAATTATTGGGTTCTAGTTTAAATACATTTTTATATTTTTAAGCTTTCAA
ATGATTATTTGAAAAAATTTATCTGAATATCCTTTTTTTCCTAAAAAGGAATTCTGCCTTTTGAGTACTAAATTATTCT
CTCTATAAATCTAAAAATATCACAGTATTTCTTTTTTTTCCAAAATCTCTCTCTCTCTCTCTTTCTCTCTCTCTCACCT
CTCCTTATCTGAAACAAACTGACATTTAATGAAGAAAACTGTGAAAAGGGGTTCGAGAAAATGAGAAGCTAGTATTTTG
ATTGGAAGTGTAATAGATGTCAGTCAGAGAAAAAGAACAGTCTCCAGAACATCTAGATGTGGATGTAGATGTAGATACA
TTGTTAACGCCACTCTGTGCATTTTAATTTAAGCCACTTGATCATGTAACCATTAATTCAATGTCAAGTTCATTCATTG

Fig. 6.218

TAGCTATTCAATATTACAATATAGCATTAATTTTAAATGACTTTATTTCAGGAGGGAAGGAAATAATTTATGAATAGCA
ACATAAGGTTTCTTATATGATGACTCATCACAATGTTGATTGCAAAAAAAGAAGCTGACTCAGACTAGCTCCTGTAGAA
AAGGGGGAACATAGTTACTATGAAGATACAGAAATTAACAGAAACAAGTATAGCAGGGCCTATTGGATTAGGAAAACTG
AAATTAAGGCAGCTACTCTCTTTGGGGCCATACAATCACCGATTTCTTTTTGTCTCTGTGTTTCTGTTCTTTCCTGCCT
TCTCCCTGTAATTGCCACTGTCTCTTTAGTTATCAGTTTGCACTGAACCCAAAATGGTAACTTCAGCCCCTGAGTCTAC
AGGACATTTTGGTTCAACCCCACCTTGAACTGATTAGAGTCTCAATTTCACTTAGGACATTTCACATTCCAAAGAGCAA
ATATTAATATTTGCTGCCTAGTAAATGAATCAGATGTCAGTGAGTCAAGTTATCATGCTTATTCCCATCAGATTTTATA
ATGGTGAAGTGTAGGAAAGGCAAGGTCTTTAGAAGGAAACATAGGCAGACATAAGTAATCATGTTTGGTATAGAGACTC
ATTTATTAAATATTTATGATAATAAAATACTTAACAAAGTCAATGTCAAGATAATAAGGACTCTGAGTCCTTATTATGC
ACCAGATACTATTCTAGGCATTAGAGGATATACCAAGGACAAAACAGACCAGAAAACCCCACTACCCCTAGAGCATGTA
CCCCACTACATGCTGATGATAATCTTTAGTCATCTATTTCAAAAATAACTTAAAAATGGAGTGGCAATGTCTCTGCGTA
GTCAATTCAAGATGCCGAAATAAAAAATACATGTATATGTGTCTTCCTTGTGTGTTTCTTTTTTTTTTTGTATTTCTCGT
GTTGAACTTGCATGGTTTTCTAAATGAAATATTTTCATTTTTAATGTTTCATATATGTGTCTGTATATATATATGTAAT
ATACATATGTTATAAATATATACAAATATATGTATTTGTAAATAACATAGTCATATTTGCTTTTATACCTAACTCTGTT
AACTGCCAATGATGTGTAATTATATATGTGCATGGGTTAGAAGTGGTGGATGGGGCCTTTGGATTTTAAATGGCATTTT
ACCTGCAGCCTCTGATGCAGCCTCTTCCAGCTTCCTATTAAAGTGACTGAAAACACTGCAAAAATATATATATATATAA
TTTTTAAAAAGCACTAAAAACCAGTACTGGCAGAATATTAAAGAAGCGTTAAATTAGATTGACAATATATATGGTGGAC
CACACATTGTATTCCATTCTAAAAGTAGGAAGAATAATTTCTTAGTTTTACCTGGACCATACAATACATCTACTATGTC
CTACTACTGTAGTAGTATATGCAGCGATATACTACTTAAGATTTTTAAAAAGAAATATACAAGCAGACCTAAAGGTGGA
TCAAAACTAAAGAGTTAAGAATAGAAACATCCAGAGGAATACCCTCTTGAGATCATCTACTGGTAAAAATTCATCACAA
GAGTTTTAAAGAGAATAATAACTTTTGTAAGCCCCATCTGATTGAACTGCCTTCCCCAGTAAACCTGTGAGAGTGGAGA
GGTTTGAGTATTTTCATGGTAATTTCTTTACCATGTGCCATCTGGCAAATAAAAGAGTTCTTTTCCAGGCAGTACTTTT
TACCAAATTCAGAGGTCGGTGAAATATTCTTACAACAACATAAAAATCGGTGGTAAACCCACTATTCCTGGAGGGGAGG
AAGACTGGAAAGAAGTATACTGACTTGTCTTTTGGGAATGGAATTATGGATGACTTGCTTCTTTCTTGTGTGTTTATTT
TATTTTATTTTTGTATTTCCCATGTTGAACTTGCATGGTTTCCTAAATGAAATAATGTTTCCTCTTTAAAAAGAAACTT
TAAATGATATTGAATCTAGTTAAAATGAAACTATGTGATAAGTTTCAGATTTTATAAATAGATTGTCAAAATATGTGTT
AAACATTCTTGATAAAATTACATCTTTGCTTCAAGCATATTGTAAAGAAAATGGAATCTATTGACATTACAAATAGCAA
TTTTAGCATCCATAAATTTGAAATTGTATAAAAATTGTACATATTCTGGGTATAAAATGTTAATGCTTGTCATGTAACT
TTGTAAAAACTTTATTTTTTAAAGCATTTTTAGGTTCACAGCAAAATTCACAGAAAGGTCCAGAGATATTCCATTTACT
CCAACCCCCACACATGCATAGCCACCCCATTATCAATATCCCCCCCACAAAAGTGGTACATTTTTTTTTACAATTGAAC
CTACATTGATACATCATTATCTCTAAAACATATAGCTTACATTAGAATTTACTCTTAGTATTGTATATTCTATGGGTTT
GCACAAATTTATATTGATGTATATCTTCCATTTTTGTATCATACGGATAATTCCAACATCTCTGGCATGTCTAGTTCTG
ATGCCTCTTCTGTCTCTTTAAACTGTGTTCTTTGCCTTTAACTATGCATTGTAATTTTTTCTTCATAGCTGGGCATGTA
CTGGATAAAAGGAACTCCTGTAAATAGGCCTTAAGTTATATGGGTGGGCCAGGCATGGTGGCTCATGCCTGGTAATCCC
AGCACTTTGGGAGGTGGAAGCAGGTGGATCACCTGAGGTCAGGAGGTTGAGACCAGCATGGCCAATGTGGTAAAACCTC
ATCTCTACTGAAAACACGAAAATTAGCCAGTCATGGTGACACATACCTCTAATCCTAGCTACTGGGGAGGCTGAGGCAG
GAGAATTGCTTGAACCCGGGAGGCGGAAGTTGCAGTGAGCCAAGATTGTGCCACTGCATTCCAGCCTGAGCTACAAGAA
CGAAACTCTGCCAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAAATAAAAAAGTTATGTGGGTG
GTGGTGTGGTAAGGGGCAGTGGAGGGGAAGCTTTCTATCATTCCATAATTAGGTTTCAGACTTTTGGTGAGCCTGGGCC
TCTGGATTGTGAATCTCCTAAGTGTTTTTCAGGTTTTTTTTTCTTATACCATAGGTGAGAGAGAATGGCTAACGTGGG
CTGGAATTGAGTATTTCCTTTCTCCTTGATGGTAGGCTAGAGTGGGCTGGAGTTGGGCATTTTCTTTCCCCAGGTCAG
TGAGGCTCTAATATAACAAAACAAAATGGAACAAAAAACCCCAGCAGGTTAGGCTCTGATTAACTAGTTTCTCCTCAGG
AAGAACCAAGCTTCAGCAGATTTAAAGATGTGTACTTTTTCCCTTCTCTTGCTGGAAGCATGAGAGAATTTTTCTCCAA
TATTTACTGTGAGAACTTGGTAGCACTCCTGGAGGTAAAACACACAGAATTGTGGGGACCTCCCTATTACTGGGTTCCT
CTGGAGTTTTTCAACTTTCAGACTTGCCTGCACTCAGCCTCTAACGATTTGTCAATTATAGTTGAGGTTTTTCTACCCC
AGCACTGGTTCTCTTGGAGGTTTCTGCTCCGGTATGTTGTGATTCTCCATAGCCTACTGTCTATCTCACCAGTGGTTTG
GGCAGCAGTTTGCCCTGTGACCTCACTTCTCTTATGGATCTAAGAAGAGTTGATTTTTCAGTTGTTCAGCTTTTTTGT
TGTTAGGACAGATTGGCAACTTCCAAGCTCCTTATGTGAGGAACTGAAAGCTGGATTATGTTACTTTTTTACTGGGAGG
TTGAGTGATAGAAGAACTGTCATCAGAAGTTTAATTAAATTATCAATCAGTAACAATCAATTAAATTTCCAGTGAAAGC
AAATCTATTTTGGATACATCTAATCAGGATAAATGAAAGAATAAGTGTGCATTCTTACAACATTTCTCTTTTTTTTTT
TTTTTGAGAGCCATTACAGGTGCGAACCACCATGCCCAGCTGATAATATGAGTAAGTTTTGAAGTTGGGCTTTATTTTA
TTACATGAGAAATATTTTTGCTCCTTTGAATTTTCTAAACAAATATTATACAAAGCCTTTAGAAAAGCTTAAGATATAA
ATGAAATGTAATTCCATTTCAGAAGGTAGTTTTGACATTACATTATTTGTATTTTTTCTTTTTTTTTCCATTTTGATTCC
AGTAAATTGCAAAACAAATGATCTGTATTTTATTATATTTTACTAAGCAAATTTTAAAGGTATATGCAAACAACATTTA
AAGAGCTCTTCTTATTAAAAAATTTTAAATTATAATAAGTTAAAATTATAATAATCTAAGTGTTTGTATTACTTCCATG
CTACGGATAAGGAAATTGTGTCTCACAGAGGTTTCATGCGTTGGTCAAAATTACACAAAAAGTAAAAGGCAGAACCTGA
AAATAAGGGTTCACATCTTAGGACTCCAAGATGGTATACACATTTGACTTTTTTGTCTTTAAACTTGCTGTGAACATTT
TTCCACTTTTGATTCTTAAGTATAAATATTAAGTGCCTTCTTTGTATTTCAGTATTAGGCTTTTAAGTCTTCTACTTCC
AAAAAAAAAATTAAAAGTAAAATTTAACAAGCATTCTAAATATTCCAATTATGAAATATATTCATATTATGAGATTTT
TCTTCTGTAAAAGAATTTATCATTTAAGATTAGAAGATTTAACCTTGAGGAGTATGATCCAAAATGGCTTTTTATATTA

Fig. 6.219

GTTGAATCATGAAAAGTCCCAACAAAGCATTTGCTGGTTTTAGGTGATGAAACTAGGTGTTTAATGAATTTATTTTTTC
TTTTCTAATTGGTGATTGTACCCTGGGTTATGAGAATATGTAGAAATTGAATGTAGTAGCTACTAGCAACTTGCTGAAA
CATGATGCATTTCCCTGACTCTCAGCAACTGAAACTGCGGCTTCATGAAAGGCTTCTCGTATTTCAGTTATAAATGTTC
AGAACAGCATGCCTTCAGACTTTGCTAGAACTTGCCAGGAGTGGAAAGTCATGACTATCAACATCGTTATTAGTTAACA
TTGACTGAGTACCAACAATGTTTTTGGTGTTATAAATATAGAGAAGAAGACACTGTTCTGTTCCTGGGGGATTGGCTTT
CTGTAAAGGTGAGATAGAGAATTTGGTCTTGAATGTTCTTTTCTTGCTGGGAGGTGGGGTTGGAAGCACAGCCACCTCA
GGTCTCATTCTGATGGCACACTCACCTCTTTATTAGTTGATGATATATGCAATAAAAAGAAAAAAATGTATAATTACAC
ATACATACACACATGTGAAAACTCATGTAAATTTTATTTTTTATTGGTAAAAAATATATATTTATGGGGGGAGCTTGAG
GCAAAAAGTCACATCCTGCAAGATATCCAGGTGACAGTAGCTTCTATATCCTTGTGTATAATGTATTTATACTGTTATT
AATAGTATATAGAATGTGCTAAGAAAAGTACATAGAAGTTTTTGTATGTGTAAATATATTTATATGAACCCAATATGTA
GAATACAGGGACCAAGTGTTTTGTTTTTGACATCTAAGGGACAAAAGTAATCCAGCCTCTTGAAAGAATGGAGACTTTC
CAAAAATATCTGAACTGATTATTGGTATTCATATAAGATAAATAAGTCATCTTTTAGGTCTTTATTCTTTGATGTCTAA
ATATACAGGAGTTTTATTTCATCAAGTTATTTAAGAGGCAAACATTGACATTAGCTATTGATTATACCAAAATGCAATG
ATGACAAAAAAATATACCTTAACATTTGACATTAAAGTTACTTTCTGAAAGTGAAACTCAGGGAAAATCAATGAAGTAA
CTCATCACACCCTCTGATAAGTACAAGTGACTAAAGAGTCTAGGAAATACCCAACCTCAGGAACTAGGGTGTGACTTTA
TTATACTATGCTTATACTAGCATAAAGGTTGAACTTAATCATTCTTTTATGCTCATTGTGAAGGAAGTGTGTAAGTTGA
AGGCATTTTAAGAGGATGAAATACTGAAACTGATATTACAGAGATAAGAATTTGTGTAGAAAGTATTAATTCTGTATTT
CTACTGTTACATTTTTGTAATTTTTTTTAAAGAGCCAGACTTTTTTTGTATGTATTATCAAACTTTGAGATAAAACTAG
TTAAAGCAGAAGAGCTCTTGTTGAAACAGCACAAAGTACCTGGCTTCCTAGACCCAGCACAAAGTACCTTGCCCCTCAG
CTGACCTGATGCAACTTTGAAAAACCATAGGGTTCCCAGAAACTTAGTTTGAAAACCTTCACTCTTATGAGCATAACCC
TATAACCATGAGAGAAAAGGGTTTTATTGGAAAAGGACGTGGGACACCGGCTAGTTAATACTTCTGGCTCTGATTCTGG
ATGCATTAAGCGATCTTTCAATGAAAATGTTGAAAGTATTTTGGTTTGCTCTGAGTTTGTAGTTTATCAATTAATTGAG
CTTTTTATTGAATCAGCCTCATTTAAGGGTAGTTAATATAAGTTCACTTACTCTTGTGCTTGCTGTGGGATTAAAATTT
AAAAAAAAACACAAAACAAAACAACAAACCAGTCTTTGCTCTAGTAGAGCTGAGGTTATGCCATAGCTGCAGGGACTTC
ACTGAGGTTATGCCAATTTGTGGTGCCCTGCTAATAATTCGCACTCCTGTATTGATAAAAATAATGGGGCTGAGATTAG
CCATAAAGATAATCTTTTATGGTTACTCCTGATATTTCTTTTTAATTTTTTTAGAGACAGAGTCTATGTTTCCCAGCCT
GGTCTTGAAATGGGCTCAAGTTATCCTCCTGCATCAGCCTTCCAAGTAGCTAGGACTACAGGCATGAGCAACCAGAACT
GGCTTCCTGATATTTCTTAAAAGTTTCATGAAAGGATGATTATCTTTTAGTGTAACAAAATAGATTAGCATTACCCTAA
CCCAACAACATTTTTTCATTTTTGACAACTTGTTTTTAGATTACAAACCTATTAGTTCTGCCTAACTGTTGTTTCTTGA
AGGCCATACATGTAGGAAGTATTAAATTTGTAAAGTATCAGCCTATAAATTAGTAGACATAACTCTTAAGACCCTCTTT
CTAATATAAATGGAATAAAATGCTGGAAATGAGTTATTTCTATTTTCTAAGCAAGCCTATTCTTTTATATTTGTTGCCT
TATGTCTGCAAAAAATATTCAATTTTGGATTGTTTAATAATGTGTAGTCTTGATTCTCTGAACTGTGAAATAAATTACAG
TTTTTTCTTTGCTATCTTTCAAGCAGAAATTTGGCTTTTCTGTTATTTATCATAGTTTCTCAGTTGTGTTTCCTTTTGT
TCTAATTTGTTAGACTTTATTCTAGACAGTTGCATGTATAAAAATAAAAATCCAACGAAAATTCACTTTAAAAATATTC
AGCTAAAATGTCCTCTTAGTTTAAGTATATTTAGTAGTTTAATGGCCAAATCATTTGTATTTTATTTATAAAGTGCTTT
GCTTATATCATTGCCCGCAAATGGAAATGTAGCTAACAAGTATTGAATGTTGAACTGTGTGGTAGTGGAGAAAGATTCA
GAGGTATTCTTACTATCCTATCACCCATAGGTGATGGTTTGACATATGAACAGAGTAGAATAAAATGGACTAAGAAAAT
AATGTCAGATAAATGATGTTCATTACAAAGGAAAATATATTTTTACATCTTTTTAAAAAATCTTTGCATTTGCTACTTT
CTATGGAGACCTACTCTCTTGTATAAGGACTGAATGTTAGTTTTAAAATAATTAAAACCCATCATTATCATCATCATGA
TCAAAGATCACTAACCAGAGTCAAATAATTTGAATTCTCTTCCAGATCTACTGCTCACAAGATGCCTGATAATGAACAA
ATACAATCTTTTTGGCATCTCCAAAATGGGCATAATAAATGTCTTAATCTCCTCAGCATAATTCTGTGATGCCAAAATA
ATACATATAACAATAATATTTTAGAAAGTATAAAAGTATAACAAGGTGGTATTATTATGATTACAGAGGTGCTAGAATA
TTGTGGTAATGTGTACAGGCTCTGGAGCCAGACTTCCTTGATTCAGATAGTGACTCACTAGATATTTAACCTCAGACAT
GCTACTTAACATCTGAGTGCCTCAATAGCCTCATCTGGAGAACAGGGCTAGTAACAGTCCTTAACTCATAGTGCTGTTG
TGTGGATTAAATGGGGTAATACTGTAACTATCTTAGAATGGGACCTGGGGCATTGTAGATGTTCCTAGCTCTTAAATAA
TAATATTTAAATGTCTAATATAATATCAAAATTTTAATTACTTGATTCAAAACATTCAAAGCTTGTTAAAAACAATGTA
GGCTGAAGTTTTCTGGGCCAGATTACAAATGACCTTATGGAAGAGATTTAGTCCCTTTAGCAAAAAGGGGTCATGAGGA
CACTGCCTAGGCTACAGGAAATCTCAACAAATATTCTCAAGATTCTTTTATGCTGTAGTGGCATCTTTCTGAACCTACA
AGTTCACATTGGCTTTTAAGGAATCACCCAGTTCTTCTTCCTCCTAGGAATCCTCCTTTTAGGATCATCTTTTGATCAA
AATGAAAATTCTCCAAATTATGGTGGTTTTTAAGATTAGTTTTCTTTATACTAGGTTTTGAATTTATGGGACATGCCCT
CCACCCAATCTTGGGTAATATTTTCTGCAATGACAGGACCTCACTGGGGAAATCCTAAATGAAGATAATAGCATGTTAT
ATTAAATGTTGCCGGTATTCCATTTAATATCAAGCAATTGCGTAAAAGCCTTTTTAAATACCTAAGTTAAAAGTGGTAT
ATTAATGTTGAGTGTACTTCTACTGCAAAGTCCATTCTCCCACTGATTTCAAACAAATACCATTTAAGTGCCAACCTAC
TATTACAAGAGTTTACTATTTTATTCTTGCTCCAAAATGGCATCAACAGTGATGGGGTGCTTTTGGGGGATTATTGAAC
AGAATTTTTGCAACAAAGGAGCAAGCATGAAGAAATGCAAAACATCAGTGATAGGGATTGCAACGTTTTATCTCAGCAT
TCCTCATATCTACACACCCCCTAATCAAACAAGCAGTTTTATGGCATGCGCAATTGCAATTGAAGTACAACTGACTTCT
GCAGAACCGGCTTCCATAGGATTTCCTGTCCAAAAATCACCATGTGGTCATCTGCAGCTAAATGGTTACAAATCATCAA
GTAAACAAGGCTTCCCCACCCCGGTGCTTTTTTTTTAAGGAGTGAAATCCACCAAACTCTATCATTTGCAAATTATCTC
TGGACTTCTTTTATTTCTTTTTTTTTCACTGGGTAAGAAGGAAAACGAGCAAACAAAAAAATCCTCCCTCCGTATTTGTT
TAAGGCGTAATTTCCCTGTGAGGTGTTTTACAGGCTTCTCCTTGTTTAGCTTTTCTTGCCTGGTAATTACTGAAAGAAG

Fig. 6.226

TCTGCTCTTCCAGGGCGAGCTATTCCTTTAACCCCTTTTGCTTGCTCTTACTTGGAGGTTAGCAAGGAGTGCGCGGCTC
TGCAATGTCTGGGAACCCACCTAGAGGGCCCCCTTGACGCCAGCACATCCCCTGTCAGGCAGCAGTCTCTGCAGCTGAG
CCAGGCTGCTGCAGAGTTAATGTACAGTACCACGGAGCCTGCAAGTGTCCTGAGCTGATCAGAGCTGGGGCGGCACAGC
CCAGGGCAGACAAGGCGGCTGCGAGGATTCCAAAGGTTCTGCTGGAAATTCGGCGCTGGGGACTCCAGCAGGAGCCTG
TTGCCATTGTGTTTTAAAAGCATGCAAGGTCTGTATAGCTTGGGCATGAGAATCTTTCAGAAGATGTCAGAGCATCAGA
ATAAATGACACCTATTGGAAAACTGAATTTGGGGTGAAAAACAAAAGAGATTGAGAGAGGAAAAAAAAGAAAAGAAAGA
CATCGGGGGAAGAATTCTTAGACAACGTCTGACTTGCAGCTGTGAAATTCATTTTCTTTCCAAGGCAAAATATGAAAAG
CTCCCACATGGTTTTGATAATAACAAAATAAAGGGGATTCTGCAGTGAAAAGATCAATAGCTTAGTCATTTTACTTAAA
GAGAACAGCCAGCCTTATTATGGGGTTAGGCAGCAGAAATGAATTTCATCGTGACAGCATCTTCTGAAGTCATGATGGT
AGTTAATGGTAATCTTGTCCTGCAGAGCAGAAATTACTCATTGCCTTCCTACTTTTGCAGTTGAACCAGCAATTCTGAA
ATCTGGGAAAGAAGTTGGCTTTGGTGATACATGGTTTCTAGCCCCTCTGCCCAGGCCTTTGTCCGACACGTCTCAGACG
GTAGCACTGCGTTAAAGTGACCATACATGAATATGTGCCTAAGAAAGAAGAAAAAGCAATATTCATTTCTAAAGGACAG
CATGGCAAAGCAACCTGAAGTTTTCCATTTCCCTTCTAACACTTCTTTAACAAGGATATCAAGAAACTGTCTTTTGACT
CCTTTCTTCCCACATTCCAGAGTCCTTCCTTAAGGATGCATTAATTTACACTCAAGGCGGTTAGATTTTACCAGGACAA
TATTTGCCACCATTTAGGATTATTAGTTGAACTGGTTATTTTAGTATGTTGACTAACTAGTGGAACCTAAATGGATGGA
CCCATACCTGCAGTGCTCTGTGATGTTTCTTTTTTCAAATCCTGGAAGGCCTTTTGTAATTGCTATTTGTTTTTATTGG
TGGGGGGAGATTTTTTTTTTTTTTTTTTGGGATTCAATACTTGTTGCAATAATTGCCCACGATAGCTGCTCAAACAAGA
GAGTTGGAATTCATCTGTAAAAATCACTACATGTAACGTAGGAGACAAGAAAAATATTAATGACAGAAGATCTGCGAAC
ATGATGCACGTGAATAATTTTCCCTTTAGAAGGCATTCCTGGATATGGTGAGTAATCAATATTCCCTTCAGTTTGTAAA
ACTCAGAATTATCAAATTCCGTGACAGGTACCAGATGAGGATTTGTCTTGAACTAGAGTATTGGTATCAAGTGAGAATG
AAAAGTAAACTGTGCAAAACCGAATATTGTCTGAGAAAGTAATGGTTATGCAATAAAAATACTTTGTTAATATGAAGCA
TCCCCAAATAAGTCAAGCATGAGGACTTGAGAACATTTAAATTGCTAATATTTCATGGAGGAAGAAAAAAACTTTGAGA
ATGGCAACAATTTAATAAATTTTTTTAAAGATGAGGCTTAGGGTTTGTTTTTGTTGTTTTGCTATTTTTATTTGAAAA
TTCCCTGGGGAAGGGCACACATGAATTTCTGATATATCAATTTGTCTGAATTTCTAAAAGAAGGTTAAGGGAAACTTAG
AATGTTGACTCAATTTTAAAATAATGCTAAAATGTGTTGGTGCCTCACAGTTAAGGATATTTTAGCTATTCAAGAAATA
TTTCTACCAGAATGAACCAGTAGAATTCTAGTAGAATTCTAACATATGAATCAGGAAGTGCTCAGGCTCTCATAGAACT
TGCTTAGTGCCTTGATATTTGGTCATCTATTAAGGTTCAATGCAATGCATTCAGGTCCCTGGACATGTGATATCATGTG
CCATTTCTTGCTGGAGTTTATGACTAAATGTGTGTAGGAACTCATTGCTGAGGGTATTTATAAGAGCAAAAGGTCATTA
TTTTAAAATTGCTTGTTTTTGCCATACCTTTAGGGTCAGCTGGATTCTGACTTTCATAGCAGAAACTTTGTGAATGCAT
AATAAAGGCACATGTTAAGGCTTAGTGTCTGCTAACATGGGTTGTTTTGGAAATGCAGTTTGTCTGATTTTGAAAGTAT
ATCTTTCAGGTAAATGTTCTGGCTGGACTCTGGATGAATAATAGATACCTAAATATAGGTTTCGGAGGGCTTTCCAGCT
GCTTTTATGACAATGTCTCAAATGAAAGCTCCCTGAGAGCTTAAGGTACCACCAAAATCACCTGCTGGTTTGTTACAGA
GTTTTCGGCTTTCAGCTAAAAAATCCATTGCAGAGAAGGATGGGAGGCATCCTCTCCCACTCTAGGCAGGTGCTTATTT
TCTAACAACACCAGATCCATCCAGAGTCGATGCTGTGGCGTATCTACCTTTTTTGCTGACCAGAGCTACTATCCCCAGT
CTCTAGAATGCTTGGGTGACATGCCTGCAAACCTCGGTGGCCCACTTCCAACTGCATCACCAGAGTTTCCTAGTCAGGG
GGAGCCTTGGTGCCATTGCCTTGCTTGTTCTGTTGGTGAGGGTCAGGCATCAGCAATAAGGTCCTCATTATTCTTACAG
ACAAATTTACATCAATAGTCTTTAATCTTGAGATTAAAAGATCCTGGAAACAGTTCCTGGCACGTAGTAGGCATTTGTC
AATTATTTTTCTTCTATGCCTTAGGCTTTTCTTCAGAGTTCATTTTATACCTCTTAAGATTTGCTTGGGAGGGGAAATT
ACCAGTCTCCTTTCTATCAAGTGTACCTTGCTACAAAGCAACAGTTTTTGTTCTACCTAAGTTCTGCTGTTTAAGCCCA
TTTGTTTATGTTGTAATACATAGGATCCATGTACTCTTTGAATGCCTGCAATTATAAGCACTTTTTATTTTTATTGCAT
TAGCCTCACCTATACTTTTGACTGGAAAGAAATAAGCTATTCAACTCTGAAGTTTTGGAAAGAATGCAAATTTGCTTAT
TCATGCTCCTCTAGATCTGTAATACATATGTTTGAAAGCTGTATGGAGAAGTTGAGAGTCCTGTTGGTTTTCTTTTGTG
CCTGGAGTTAGGTAACCCTTCATCTGCTTCACTGCATGTCGTACCAATCTGTTGTTGTTGTTGTGGCCAAACTAAGCCA
ATGTAGAATGTTAATGCTCTGTATAACTCCTACTCTTCCTGGGCCCCTTGCAGGGATTCATTAATATGATGTTGGACTC
AAAGGAAGAAGGTGGTGGTTTTTTTCCAGGTGACCTAATTAATTTTGTGCTTGGTTCTTGACTTTCTCAATGGTTGTTG
TTTTCCTCTTATTTATAGCCTCCCCTTCCAGTACTGCAGTAAGAGATTGTAGGGGTTTGTTGACAGAAAACCCTCTTTC
CCTTTGTCCTACTGTAAGAGCCCCTATAGGGTGAGATTTCAGGCTCGTGAATTATCGTGCTTAGAATAAAGGTCTCGCC
AAATTGCTCTTTTCATCTCCAAAGACTCCCCCTATCCTCATTCTCACATTTAGAGCCTTTTCTTCGTGAAGGGACCGAT
CAGAAGTTGGCAACAGGCCAGTGCTAAGGAATAATAAACATTGTAAAAGACATATGTGCTTTGGTTTCACGAGCCCTAG
CTCATCTCTAGAAAGGCTCTGTACCCTTTGGAGAGGCGGGACTTGGCATGTGCTGGTCCTCTTTCTGTCCTGCTTTTTG
AGAAGCAAGAATGAGAAAAAGCTGAGACACAGGAGGTCTAGGGTAGTCTTCAAATTTTACCAGAAGTAGTAATTGAAAT
AGAAGCCTGTGCACAGAGTTCCTACTTGTACTCTCATCCACCTGCCCTAGGGCTGGTGTGTTGATTATTGAGCAATAGT
ATTACAAATTCACTCTTTATCAGTTATGAGTTAAAGTTAATAAGTGGTCCTATTACTTGGTTTAATAGAACACTACCCC
TTCCGTGCTAAAAGAGTGGTATGAAGAATGTGTGTTTCTTCTTTGAAGCTACATTAGAAATATTAGCTGGAGGATTTTA
TTGCGAAGGCTTCTTTCCATTACACTTTTCAGTCTTTTTACTGCCAAGCCAAACAAAGATAAGGGTTTGCCTCACTGGA
TAGATAAGTACTATATAGCTCTTCTTATTTTTCCTTCTGGCTAGTTGTTAGAATGGAGAGATAGCCTGGCATTCAGGAA
CAAGTATGGCATGGTTGAAAGAAGGGAAATGCAAGTCAGCTTTCTAGGAATTTAAATTTCATGTAGCAGCAGTTAAGAG
GACCTTTAGAAGCATTATGACCTGGAATCACATGCCAGGGTCTAACATGAATGACCTAACACAGTGTGACTAACATGTT
CAGCTTTTTGCCTGACTTAAAAGATATATAACAACTTTTTATAATCTTATTGTAAAAATACTATAATTTCATGCCAGA
AACATCAAGGCTATGTTGAATGCAATTGAATTTCATAGCTAAACAATTTAGGAGGGCATTTTATTTAAATACCTTTGCA

Fig. 6.221

TCCTTTTAATGATGGATTCACATGGCTAAAAGGACAGTGGAAGATAGAAGCTAAAGGCCCTGGCTAGGAGAGGCTGTGG
AATGCTGCCATGGAGGGCCCCTCTGAGGACACCAGAGGAAGATTTGGGATTAATGATTGTGGAAGGTGATTAATGATTT
GCTTATTTGGTGCTTAGGGTTTAATTTTTAAAGGTAGGACATCTAAATGTTTTAAACTGTCTTTGTGATGCTGAGAGGT
AACTCCAGTGAAGAGGCAAAATGAGGTGACTGTGGCACTTTCACTCAACATGGAGGCATCTTTTTCCTTCTTCTAGGAC
CCTAAATTCTTTCATTAGACTGTCCTTTTCCAGGTATCAATTTCTAAAAGGTTTAGTCTAGAAAGTTATTTGTTTGATT
GTTCCTCTATAGACCAAGCATTCAATTCATAAACTAACTCATACTGTTTTATTCTGTTTTGATCTAAATCCTTTATGGA
ATGAAGCAAGATATAAATCAGTATATTGATAATATATTCATATATGTGTTCATAATTTGCATGTATATGTGTTTAAATC
TACTAATATAATGAATACGTATTCAGAGAAAGTCAGAATGGCCTGCCTTCTAATGAAAAGATAATCCTTCCTATCTAGC
CTCATAGAGTTTCATCTTTTAAGGTTTTCTCCTCTTCATACATTGAAATTACAGAAACTCAATCCAGAAGTGCATTTTC
CAGAGTATGTGTTCTGACCAATACATTATATTTTATTAGAATTTTAGGGGGTGGGAGCAATATTGAGTTTGATGACTAT
GTATACGTTGAAGGAAATGACGTATCAAGTCTCATGTAAGATAATGGAGCTTTGCTCCTTTTAGTTAACTTAAAATTAT
TGCAGTGTCTGCTTGTCTTCCAGTGAAATTGCAGGTAATAGCTGACCTTGCTTCTTTAACATCTCTTCCTCTGGGTTAC
AGAACAACCCAGAAATTCTAAAATATAAATACCAGACTGCCAGCTTAATTCTGAATTCCTGTTGGGGCCAAATACAATT
TACTTGTAAACACTTAGGACCAATAAAGTTTAGATGGAGCTCATAATTATACAAACTCATCTCGTTCACAAATCCCTAG
GGCTCAATGTTAAAGTCAGCCATTGTTTAAGGCAGAAATTCAGGTTTAGATATAGTGTAGCAAAGATTTTCCATTATAT
GAGATATCGATCCTATTAAACATAAAACTTTTCTCTTGGCTTTCTATTTTACTGTCTTTTGTTGCCATCAGCTGTATGC
CCCTTAATTTTTTCTAGTAATACCTTGGAATTTAAAAATGAAATTACAAATGTTTATGTTTTAGTGTTTTTAAAAATAA
TTCGATTAAGTATGCTATGATAGAGGAGCAAAGTTGTTATTAGTAATATCAATGTGCTTACAACTTATGGAAATGAAAA
ATAGTCTTTAGTCCTAGCAGCCTTTCTGCTGTAGTAAAATAGTTTGTGCACTTTAAATCGCTGTGAGGTTACATCTTCA
AAGGACTGAGTGGCATAAGCCAGGGAGGTCTTAGAAATCTTACAAAAGGAAAAAAATAAGAAATTATTCCTCATCATAT
GAAAATTATTTACTAACAATGTATGATGTTTTAGCTTCTTTTAAATTCTTCACTTTCCACTCCTTTTTGCTTCTTCCTT
TTAGTTGACTATTACTGAGTTACTTACACTAATGTTGAGGTATTTGGGTTCAGAGAAAAATAGGCAAGTAAAGGAAAAT
TGAAAATAGTTTCAAATTCTGAGATGCAAAGAAGAACCCAAAAAAACTAAACAACCAGTTTTTATTGCCATAGGTCGA
ATGTTCCTTTTTAAAAAAATCCCTCATCCTTTTCTCTCCTCTTTCAATCATATCCCACAAACGTTAATGCTCATTAATA
CTCTGTCTAGCTATAGCATTATCCACATTTTTGCAATAGCTCAAAAATGTCTCCAAGCCATAACTGCTGCAACTGCTTA
TAACTTGATGGACTATTAGGTGACGTTTCCAGTTGTTTGAGAAGTACCAGCCTATAAACATACCCAAGACAATATATTA
CAACTAGGGATTATGTTGTGTAAAATTTATACATATATATCTCTCCATATATGATTTCAAGGATAGATAATCTAGAGTC
TACATAATCAGGCTATTGGCTGGAAACATAAATAAACTAAAAAAAAATAATTTAAAAAAAGCACTCCAGGTTTCTAATT
CAGCTTCTGGAGTGTTAATGTTTTGTGTGACCTTCTGAAAGCTCTTTGAGTTTTTACCACTTTTGAAAACTATTACAGC
AGATATTTACCCACTTCATGTTAAGAAGTAGGCTATTAAAGAAAATCTCATAGCACATTGGTAATAACAATTTATTAGA
GACCAGCCTGAACAACATAGTGAGACCCTGTCTCTCTCTCTATTTTTTTAAAGGTAGCTGGGCATGGTGGTTCATGCCT
GTGGTCCCAGTTACTCAGGGAGGCTAAGGTGGGAGTGTCTCTTGAATTCAGAAGGTTGAGGCTACGATAAGCCATGATC
ATGCCACTGCACTCCAGCCTGGGCAAGACAGAAAGACCCTGTCTCAAAAAAATAAAAGAAGAATTTATTAGAATGTTGA
CAATGACATGCCAAAATCTCTTGTATAACTATCATATACTTCATGGAAGAGATCAACACTGTTGAGCACTCCTCTGCAT
GCCATATGTTTTCACATAAGTTACATCCTTTAATGGCAATATAACTTTCTGAGAATTTCTTATCCAAATCCCTGTTTGC
AGATGAGGAAGGTAATGTTCACAGAGATTAGATAACTTGCTGAAAGTTCATATATCTATTGCTAGGGAAGCTGACCCAC
TCAAAACCAGGCCTGGCCTGATTTTAGAGCCCAATATATTTTTAATCCACCATATTGTTCTTGTGGCAGATGACTTAGC
ACTCTTGTTTATGGATCTTTTTGAAAATTAGATTAGCAGTAGACCAGAGAAAATAAGCAGATTTACCCTGTTATTTAGC
AGCCTGGCTAAGTATGTAGGATGCTTACTGAATGTGAATAGCCTTTCCTTGAGAAACTCTTCCTTTTAATGTTAGAACA
ATGACCTATACTTAGACTGTGTCAGCAGCTCTTTCTGTATTTTCTCAGAATGAGAAATTTAAAAGGAATTTGTGGTGAA
CTCTGTTTCCAAGGTCACTGTGGCCTATAGGATCCTTTCACTAAAAAGTGCCTCTCTGGACGATATATTAGGAAAGGTG
TCACACTTTGAACAGATGAAGTAGAAATGCAAACTACAGTACTTGGTGAATGGACAGAGCCTCTGTTCAAAGCAAAAGT
CACTCTTCCCACTGGGTACACACTTGGTGTGTGGAGCATAGATGAATTCAGCTCTATTCACCATCTCTGCGGGGCATTG
TTGAGCCCTGTTCAAACTGCCTATCTCTGGCCCTGCTTTGATACGGGCTCCAGCTTTACTTTGTGACAGATGAAATGGT
TTTGAGAATGCTTTGCCAAAAATAAAAGATCATCCACATTTTAGGTTTTGCTGCCATAATTATTACTTTCTTCAAAATA
TTCAACTAATTGTATGTCTTTAAACTTCATTTTGTGCTCAAGTAAAGAATATTAGTATTATCTGAAATCAGATCCAATT
GCCAAAGAAGCATTTTAATCATAAAATAGCCCAATTTCTGAGTTACTGAAAAATGTCATGGTTAGTGAATTATATTGGA
ACAGGTGGAACACACTGAGTTATTTATTCATAGGGGATGCCCAGATGAATGTAATAAGAGTCCTGCCTTGGAGATACTC
ATAAACTAGTCTGGAGAACAGCCACAGAAACAAATAATTACAGTATAGTATGGAGCATATTAATATAGATATATACAAG
TTGTTACAGGAGTCAGAAGGAGAAACAACTTAACTGACTTGATCCAAATACCTTAAGTTTCAAAGTGAAAATATATTTG
ATGGATTTGGGAATTAGTAGTTACTGATAATACTTCAGAGAGTGGTTTAAGGGAGTGTCTGGGGGTAAGTTATATTTCA
GGGGTAATAAAAGCAGAGAAAAGTTGTGCAAACTACTTCTTTCAAAATTTTGCTTAAGAACGAAGGAGGAGGAGAAGAA
GAGGAGGAAAGAGGAGAAGGAGAGGAGAAAAACACAGTAGCTAGTGAAGAACACCAAGCACTTTTAAGAGTAGGAAGCA
TGTCCCTAAGGAAATATTCTGATACAGAGCTGGGAAACTTGTGGACATGACACCCCTCTGGGATAGGGGGAGGAAAAGGA
GGGAGAATGCAGATAATGTGGAGATTAGGTAGGTGGAAGGAGAGCCTGAGGGAGTTTTTGTTTTATGCCCTGTGTTTTC
TCTGGGAAGTATTAAATGGAATTCAAGATCACATCTCAGAAAGAGGACCAGGGAGGAGCAGGTGGAGGAGCTTAGTAAG
AT[illegible]ATGGAACAGCTACTAGGGGGAATTGGAAAGGTTATTGAAGAGAGAGTACAAGACAGTCAAACAAGTTGGAAAAAGG
TC[illegible]TGATGTTGAATGAATATATCCAGTCAATAAAAGACGTTTTACTCTACTTGAGAAATTATTTACACAAAGTATTAT
G[illegible]GGGAAATGAGTAGAGATGTGACAGAAATGTTACAATTCTTAATTATTAAATTTGAAACTGTTTTGTGATGAGAAT
GT[illegible]TCCTATGGATTGTGTTTCTTGGGATTCCAAAGAATACAGAGTTGATCTTAATTGTTGTTGTTGTTTTATTTGGTAG

Fig. 6.222

TGGTGGAAACTGTTTTATGAACATATTAATTAGATTGCAGTTCCATTTTCATGACCTGATTTTTTGAAAATGTGAGATT
TCCTGTGCTGCCTTGAAATAACTCTTGGGTGACAAACAGAAGCTTTAAGATGTTTGCTTTGAATTTTATCTTCAAATGA
ATAAAAATCACAGTGGGAAGAAAAGCCAAAATGATTCAGCTTTGCTCCCTTTTTAATAGGAACCTTTCTGTGGTTTATG
TTAGAATGTCACAAATCCATATATATGTAACCTGCTTTTACAAAAATTTCTTCAAAACCGCTATGAAGCTTACTTGAAA
GTGTCACCAGTCTCTGAGAAATGTACTGGAAATAAGGAAACATAATATGACTTTAACCAGAACTGATGTAACCCAGTTT
AAATATTTATACATTTAAATTCTCTTTTATGTCTCCAAGATAAATAGGAGAAAATGACAAATAAAATATGTAAGTTAAG
GGATATTATTAAATAGCCTTATAATTTTCTAGGTCATGAGAATAAACCCTGGAGGATACTGTGACTTTAGCCAATATTA
TGAATTCCTTTCATCTCTTCTAATCATCTCAGCAGAGCTTCCGCTATTATTGTCAGCATTCAGTGCTCACCACTACTTT
ATACAGAGCTTGCTTTGTAGAATTTTTGCTGTGGCTCTAAAACTCTAAATAAGATTCTAAAAGTCTTAGTCACTTGTCA
GGGAACTTCATTCTTCCTCTCCCTTGAGTCTCCATATTTTTCTTTTCTAAATATGAAAATGAGAAGGTTGACTTAACTG
ATCACTAAGGTGCTATAAAAATCTATGATCTTATATCTTACCTAGTTAATTTACTCATTTCTGTCTTATTCAGGCATAA
TTGTTCTTCCATTAAAGGTAATGCAGAGAAACCACACATAAATCAACAAACACCTCCAGGACTGAGCTCTGATGCTTTT
CTCAAGTATTTGGCCTCTCCTATGGAATATCCTTAGCCTGTCTACCTTGGGTATTTTGCTTAATTCCTTCTCCACAAAA
CCTAACTTTAAATGGCAGCCTTTTTCATGGGGAAGACAGCAGCGTTATGCCCGTTAATGCTGATATCCACAGTATTTGA
GAAAACATATTCCATATGCAACCTATACATTTCTCATATCTTCCCAACTCTTCTCTTGATAAAGGTCTCAGGCCCTTCC
TTTTTCATATATCCTCCATTTAATTTAAGGAAATAACATGATATGAAGTCCTCAATCTTAAGAACCTTGTCATTGGGTT
GCTCACTATGTTTAAAACAAATAATTGGCGTAATGATGGAGAGTCCCTTGATGTTCTAGAGAAGAAAGGAAAGCTAGCA
ATGTGACAGTGGGCAAATTGAGAAAACCGTAGTGGTATTGAGATCAGTGAAAGAGACCTCTTACAAGTCCTAAAGTAAG
GCATTTGAGTCTTAAACCTTTGGGTGTGTTAATTTTAAAAGAAGAAAATATTTGTGGGAAAAGTCCTATTTTTTAGAAA
ATAATCTGTGCCAGATTTGATTTTTGAGAGAGGTTGAATGCTAAGTTGCCTCAGGATGTCATCATTTGAAAGGGTGACC
ACATTCTGTGAGATCTTCACTGCACACAACCTTTTGCTTCAAAGAACTTTCTGAGACCAAGCTAGCCTTTGAGACCAGG
TATTAACATTATAATCTGTTCTATTCATTGCAGTAGCCACCTCGACTACTTTTTTCTACTTTATACCACAATACCCAGC
ATGGTGTTGTACTTAATAGGTACTTTTTAAATTTTTTCTTAATAAATAATTATGTGTACAGAAAAGAATGATAAATAAA
AATTATATTGTCAGGGGAAATTTTAATTAAATAACTTTATATTTTTCAAATAATGTTATTGTGCTATGTTTTGAGATAA
GGTAGGGTCGTATGCTATAAAAAATAATACAGATAATAACTATCACATTTAACAGGTTATCCATTCCAAGTATAGACTA
ATTTTTTTATAGACATCATTTTACTTAATCATCCCCCAAGTCTGTGGCAAGGGCTTGTTATCTACTTACTAAGGGTGCA
ACCTTGGGTCACTTATCTAACCTCTCCATGATCTGTAACATAGGGACAGTAAATAGTTCTCATTGCATAGGGTTGCTGT
GAAGATTAAATGAGAAAACCAGTCTAGTGCTTAGAACACCTGTCACTCAGTAAGTATCCAATAAATATTGTTATAGTAC
AGATTAGGCAACTAGCTGTGAATGGTTAACCAGGTTGCCTAGGGTAATCAGTGGCAGGCCACTTCCAACCTAGATCTTA
CCCATTAACTATAGGTTGCTTGGAGGTCTAAACTGCCTCTTCTATATCACATTCTTGTTCAGTAAATACAGGGACAATA
CCTTGGGTTAAGTTTGAATTATGAGGGATAATTTATACCTCCTCATCTCTCAAGCCTCAGCAAGAATCGACTGATGTGC
CCTCCCATGTTGAGTCAGTGCCTACCTTATACAGGATGGATTTTCTGTTTATGACTGTCTTACTCAGGCCCTGCTTCAT
TAGATTCTCTGTTCTTAGCACAGTGCCTGACACATAGTAGGTGCTCAATAAAATGATTTAGAGTAAACATTACTTTTC
CAGAATTGTGTCCTGGGAATTTACGGCTTTTAATATTAATTTCAGGTTTTTAGGATATAGCCCATGTTTTTGGGGGGAT
AGATACTGTTTCTATAAAAATTGTCATCTTGAGCATAAATAATTCCCACATATCTTGATTTCTGTCACTTGGGAGAGTT
TAACTGGATTTGTAGAAGCAACCATCCTGCCGAACTGGGTGTATCTGTAAAATCTAAATGCTATTGCTACAAATCACCT
TATCTAAGACACCATTTCTTCAAAACTAATAACTAGCTCATTCACTTTCATATAGGAATCTTTCTTTCCTTGAAGATAT
GTATGTTTTATCTTGCTGGTGAGATAAAAGTCTGTAAATTATCTCCACAGCTGGCTCTGATGCTTGATTATGCCCCTTT
CTGCATCTATAACATTGATGTTTCATTTTAATTACTTTTCATCACAGTACATGATGTGGTCTTCAGACATAGACCAGCC
TCTACGTGTGGCTCTTCGTTCTTTTTATACATCTTTCACTGTCAAACTAAGCTCTAAAAATCATCTCCCTAATATCTCT
TCACTTGCCAAGAAAATGTACTAGCTTTGTATTATATGTAATACAGCATAAAGCTCTGCCTCATCTGGCCTCCTCCTTT
CTAGTCTCATTGTAGAAATGATAATTTTTATTAATATTATCAGTGTTAATTAATTTCTCTCATTATTCTAGCATACATA
TCCTATATTTGAGTTTTTAAATATATCAATTCTTTAGTATAGTGGTTATAATCACACTATATATGTATAGAATGAGGTT
TTATTCTCACTTTATTATGAAAGAGTATCAATAACTATTTTATATCATTATATGTAGTTTTGTCAGAGAACATCCTGAA
AAATTAACTTCAATGTTTTAAAAAGCCATAGTTCTCAGTGTGATGGAGATGGTGAGGATTGGAGAATGTCATTAGGGAA
GGCAGTTGTATCATTTATCAGAAATAACTGCAAGACTTTGTTGGGGGGAAAGTAATAAGGAGTATGAAAATCTGGAGGT
TGAAGAGTGGGTAGGAAGAGGAAGTGACAGGTATATTTTGATAAAGCATTCGAGGGTTTCATACCTCTCTCTCTTAACC
AGTAGTACAATGCAAGGGAAAGATCCCATGCTTTAAAGCTGTATTGAACCAAGTTCAAATTCAACTCTGATGCTGACTG
GTTAACTTTGAGCAAATCACCTTTTATGAGCATCACTTAACTCATTTATAAGAGAAAAATAGAACAGTTCCAATCACCC
AGATTTACTGTAAGGATTCAATGAGATAATACATTATTTAATTTGTCATTTTTAAACCGCAGCTTTTCCCAGGCAGCAT
TTAAGACAACCAACAAAGTTATATGTGCATAACTTATAGGGAGAATGTTGATGAAGGGCAAAGAGAAATAAGGTATGAT
GTTCCTACTCACATATGTATGTAATAGTTAAAAAATATATATATATATATTACCTTTACAAACGGCACCAGAATCCTCT
TGGGGAAGGAAGAAAAATGTCTTTGCTAGAAGATATTTATATATATATATATATAAATATATATATATAAATATATATA
TAAATATATATATTTTTATATATAAATATATATAAATATATATTTTTATATATATATATATATATATATTTTTTTTTGA
GACAGAGTCTCCCTTTGTTGTCCAGGCTGGAGTGCAGTGGTGTGATGTCATCCCACTGCAACCTCTGCCTCCCAGTTTC
AAGCGGTTCTCCTAGCTCAGCCTCCCGAGTTGCTGGGACTACGCATGCAAGCTGCCACACCCAGCTAATTTTTGTATTT
TTAGTAAAGATGGGGTTTCACCATGTTGGCCTGGCTGGTCTCGAACTCCTGACCCCAGGTGATCCACCCATCTCAGCCT
CCCAAAGTGCTAGGATTACAGGAGTGAGTCACTGCAGCTGGCCTAGAAGAGCTATTTTGAACGTGCCCTTGGGATAGGA
AGAAAGTCCCTGAGGATCTGACTATAGGTAGGTGCTCAAGTGCTCTAAGGGTGAAAACTTCTCTGCATAACAGAAGAAG
AATTTAGTGCTAAAGAGCCAATGAGAATGATGGAGATGAGGCAGAGAAATTAGGAGAGAGGACAGGATGAGGAAAATTC

Fig. 6.223

GCCCTGGGAAGGCTGAGAACTGCGGGTATACTCCATAAACAGATCCCTCCCCAGTACTGACAGTGGTTCGGTGGGTGAG
GGGTATTGGGGAGGGTACAGGGAGTTGCTAGGGGTGGGAAGACCACTAATATATGTATGTCTTACTTGAAGCCTCAGGA
GTACCTGAAGTAAGTGATTTTGATGGTGTTGGTGGCATGTGAATCAAAATGAGCTGTGTTGTGTTGGCAAAGCAGGTCA
ATGAGCCCAGCCTTTAGGAAATTATCAGAAATTTAGAGGTGAGTTTTGGGATTCTTACTGGTCATGAAATTAGGAAGTT
CAAATCAATTTTGTTTAGATCTCAAGGGAGGCAGAGGGCCTTCCATCTTTCAAGAGTTAAGCAGACCATGAAGTCCAAG
GGTATGCAAGATGGAATGTAAAGTTCTCACTAAGCTTCCTAGGATCCAGGGTAAATCAGGAAGCTTAAACACAAATCCC
CGTGTCCATTGGATAAACAATTTGATGGATCAGGGAAGCACACCACTTATGATACTAAGATCAGAAAGAAATTTGTCCT
AAGTTGTGCATAAAGATTAATGATATACATATATAAATCATGGTATCTGCTCAACTTAGTGTGTTTGATATATTTTAGT
TCCTCTCCTGTCCCTTTTTTCCCCTATGGATTTCTGTGGAAGATTGTAGTATATTTGAAAGTTCTTTGAAAATTGTAAA
TACTATTGTTAGTTTATAATTAAAAGAAAGCGGCCGGGCGTGGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCC
GAGGCGGGTGGATCACGAGGTCAGGAGATCGAGACCATCTTGGCTAATATGGTGAAGCCCCGTCTCTACTAAAAATACA
AAAAATTAGCTGGGCGTGGTGGCGGGCGCCTGTAGTCCCAGCTACTCGGGATGCTGAGGCAGGAGAATGGCGTGAACCC
GGGAGGCGGAGCTTGCAGTGAGCCCAGATAGCGCCACTGCAGTCCGGCCTGGGCGAAAGAGCAAGACTCCGTCTCAAAA
ACAAAAACAAAAACAAAAACAAAACAAAACAAAACAAAAAACCTGTGTACCAGATTTCATTAAAATCTGATTAAATACT
ATTAAAGAAAGTATAATAAAATAGATAGTATAAGAAAAGGATAATCCAAATAAAAAATATGTTTCTTATTAAAAAATGG
TATGTCTTGCCAAATTTTGAAGTTAAAAGCACAGCATTCTCACTTCTTTAACCCAACTTATAGCCCATTATAGCACTAG
ATTTTAGAATCCTGAGTCCTATGCCATCTGTAATGGCAACAGTCTTACAGGGTGATACAACCTTTTGTAATTCTTAAGG
AGACTTGAATTTTTGAGGCAAATGTTGAGTCTATACGTGGACATTTGTTGTGTAAGAGTGGAAGTGGAAGTCAAAATTC
TGAACAAGGTTGCTCCCAATAAGATCTGTCAGCTCACAAGATTGCTTCCCTAGGCTTGAAATGTTTCAAGCACAAATTC
AATTCATAAGGAAAATGAGAATCATGAAAATGATTATGAAATAGCAAGCAGTCTGGAAAGAGGATGTAGACGAATGCCA
AAGCTTCTGGAATTTATGAAATATTTCCATTTATGGGGCCAGGTGAAATAAGTTGTTCTTTCAGAAATGTGTGACATGG
CTATTATATATTATCCCCCTAAAACTATTTGATCATAAAACAAAACAACAAAAACAAAAACTGATAAACAGCAATGACA
AAACAACTAAATAAAAAAGAAATGCAGTTCTTGAATACAGGATATAAAGGCTCAGTGCACTTTTTCATTTTCTTATTAT
TTCTTTTCCCTGGCTAGGTGAGTTGGCTGTTTTATATTGGCACTAAGAGTTTGATACCACTACTAGAATAGTCAAGTAT
TTGACCTGGCCATGAGTAAAAGATGTTTGATTGACAGATGAGTCTATCTGTGTCAAACAGCTTTACCTTGAGAAAAATC
ACAACTTTGAAAGCAGTAACACTTCAAAAGAATATTGAAGATTGTGGCCACTTTCCCCCACCTCTCCCCAAAATCTATC
TTCATTCAAGTTCATTATAAGCAGCTCCTTTGGGTAATTTGGGTTGCGTGCTTTCTCCACCCCTTCTGTATCCTTGGCT
TCTTCAGAGCGTCAATCAAGACAAGCAAAAGATTCAAGAAAAAAAGGGAAATGACCTTTCAGTACCTGAGTCTTCACAC
CAATTCATCATTGCTAAGTGCTCCAAAACTGCTGAGTACAGTATTTAGGAAGTGTCCAGTACATCAGCCTGGCATATAT
TGTTCTTAACTTGAGGTTACTAATGCCTATTGCAAATGTGCTTTACGTCAGCCAAATGATGTGTTTAAAAACCTCTATG
TCTAGCATGAAGAAGAATCTCTTTCATTCTCATGTTACCTTAAAAGATTTTCATACCAATATACATCAGGGAGGAGCAA
ATTTTTGTTTCATATGTTACACATGTTATGGTGCACATGAAGACTGGAAACGGTAGTTATTTGTTGGGCATGTGTATGA
ATTAGTATGTAAAATACACAGCATTTTTTTCTCTTCTAAGTTACTAAATATTAGATATTTAATGTATTTCTTTTGCTTT
GCTAATTTATTCAAATGTAATCCTGACTAATCCATTATTTTGTTAACATGTCTACTTGATTAATGTGTTTTTCCCCTCT
TCTAATTCTGATCCACAAATTTTATAGCTATTCATTGTATTACTTAATCTAAGTCCACTAAAGATTATCCTTATTCATG
TTTCTCCATTAAAGACAACGATAATATCATTGAGTTAGCTTAGTTCGGATAGAAATTTGGCTAGCATTCATTATTTGAT
TTTCTTGGAGTTTTGCAATTTTTTTTTTTTGCATATTTGTCAACATTGTATACTCCTGAAAGCATTGTGTTTAAAATA
CCTATTTCTTGATCAGTAGAATTGATATAGCTGACTTACACGGATCAATAACATGATTTTAAGAGCATTTCAAGGAAAT
CTCTCATCTGCATTGTCTTTTTTTCTAACACAGTTTGCACTATTTACAAGTGAAAATTTTATATTACTTTACATATTTT
CCTGTAAAAATTAGAAAACTGTATTCTTTGGCACCCGAATGTGTCCTTGAATTATTAATTTGTTAATTTTGTATGACAT
CCTTATTTATTAGAGAAGCAATAATATTTCTCATGGGAATGCATGTATTAATACTTTCAGAGGTCCAGAAAGTATCAGG
AGATTAAATACTGAGATTAAAGAGTACTCTCTTCCCACTATTATGTTCAGTTCTGATTTTCCAGCTGTGTAGCTAGAAC
AAAGAAAGAATGTGGGTTTTTTTAAAGAATAAGACAAGGCTAGAAGGTATGCCCTTGTGAGGGCGCCACTGACTGTGT
CATCACAGGAGGGCCCTGATACATGAATATTCGGTCTCCAGGAAGCCAAGTATGATATTCACAACCACATAATAATGTG
CTAACCTCATTCACGGTAATCACAGATAATGTAGTATTTGTGTCTGCCATACAGTTTTGAAGGTAAAATATGGAACCTA
TTTTGGAAATTTCACATAACATCTTAAGCTGTATTAATAGAACCAGAATAACCCAAAATAAAGAGGTAATGAATGCACT
TGACCCTGCATCATTCAGACCTCAGCTGGAATATTGTGCTTCCTTTTGGGCTGCAGACAAACAGAAGAGGACTCAGGAG
AGTGACAAGAGAGGAAGCAAGCTCATGCCTTGTCACATATAAAGTGGTTGAAAGACTGCAATTGTTAGAGAAAATGATG
CAGTAATTGAACGATGGGTACTGGGAAGAGGCTAGTTCTTTGAGGCTGCTAATCTGAAATATAACAAGTGGATGCACCT
GCAGTAAAAGAGATTAAGCCCCAGAATGAGTCTGGATGTTCTAATGGTCAGAACAGGCATTTCATATGACATGGCCTGC
ATTGGTCCAGGTGGCGAAGTAAGGATGGACAAACATGCGTTGTTTGCAATGATAAAAAATCATAAGTAGATGATAACAT
TGATTTGCTGAAATTTTTCTCTTTTTTGTTTGGTGTAAAACTTTATATGTCGTACTTTTTGCCTTGTGGTTTTTTTGTA
TCTTAGGACAAAGGTATTCTTAATCCCTTTCTTTGTCTTCTTGAAAGATGCAACCATGCAGAAAATGCATACCTCCTGT
AAATTGTTTCCTGTCTTTTAGTAAACCTTTGTTTAAATGAGTCATATGTTTAGCAATTTTAACATTTTAACTTGGCTCT
AATTAATGATAATATAGCGTGATTTATGGTCTTCTAAAGAAATGTAGACATAGAAAATGGAGATAGAGGTTAACATGTG
AAGAAGAGTTTGTATTTTGGGTTAGAAAATTAAATATTGGCTTATGTCAGTAAGATTAGGCCTTACTATTTGATTGTAC
GAGTTTACTTTAAATTTCTAGGCTTTCAGGGCTTTGTAAAGATAAATTTTATTTTAAAACAGCTTTAGATTTGCAGAAA
AATGGCAAAGATAGTGCAGGGAGTTTCCATATACCCCTCACCCACTGCCTTTTATTAAAGTCTTATATGAGTATGATAC
TTTTGTTACAATGAATGAACCAGTATTGGTACATTATTATTATTTAAAGTCCCTATTCATTCATATATCCTTAGTTTTA
CCTAAGGTTCTTTTTTTCTATTCCAGGGCCCCACTCAGGATACCACATTGCATTTAGTTCTCGTGTTTCATTTATCTTT

Fig. 6.224

GCTATAGAATTTTCTCAGATTTTCCTTGTTTTTCATTACCTTGGCAGTTTTGAGGAGTACTGATTAGGTATTTTGTAGA
ATGTCTCTCAGTTGGAATTTTCTGATTGATTTTTCATGATTAGACTGTAGTTAGTGTTTTGGGGAGAGAGACCACAGAG
GGTAATGTGCCATTTTTCCATCACACTGTCAACATGACTAAAGATGTTAACCTTGATCACCTGATCGAGGTGGATTTGG
TCAGGTTTTTCCACTATAAATGTATTATTTTTCCTTATTTTTATTATTTTCATACCTACCCTTTGGAAGGAAGTCATGA
TAAACAACCCACACTTAAGAGGGTGTTATACTCCATCTCCTTGAAGGCAGAGAATCTACATAAAATATTTGCAATTCTT
CTCCACAGAAGATTTGCTTATTCTCCCTCATTTAATTATTCAGCATTTATGTATATCAGTATGGACTCATGGATATTTA
TTTTATGCTTAGGTTATAATCCACTACTGTCATACTAATCGTGCTGTGAAATTGTTCCAGCTTTGGCCATTGGGTACTA
TTTCTTGTGTCCCTTTGATACATCCCCACAATTGTGGTGGTTTTGTTTTCTGTTTTTTGTTTGTTTTGTTTTGATGCAC
TTTCATCCTTTCTAGCATTACACAATACTTGAGGCTTATCAACAATATAACTCCTTCCTCATCATAGATTCAGCCATTT
CTCCAAGGAGCACACGTTCCTTTCATTGGAAAATGGTATTAAAAACCAAGATTTGAGCAATAGGTGTGTTCATTGTTTT
TGGGTTGTCATTTCCTTTTGGCCTTCTTGGCTGACAGAGCAAGGACATATATTTGTGTATACCAACCTGTGTATGTACA
CATATCTAACAATCAGGAAGCATAAATAGATAGATGATAGATAGATAAGCATTAGTTCATACTGATATTTTCAAATCTA
ACTCATTACCACATGGGTCATTCTAGCTTCTTCCTCTTGCTTATCTATAATCTTCCACTCCAACAGTGAAAAACTACCA
TCCATCATTTGCTTACTTAATTGTTCAATTCCAGTGGTGCTGTTCCATTTATCCTTACTGAAGTTGAAATACATAAATA
TAAGCTGAATTTTTCTCAAACCCTTAGAAAAATTATTTTTCCCCCAAAATGTTTTTACCCTGCAAACTCTTAAGATTT
TAAAATGTATTTGTGTCCCAAATGTTTTTCTGTACATAAAAATTGATATAGTCAACTTTATATTGTTTGCAGTTAACTT
GGGACATGGATAATGGAAATTCTCAGATAATTCCACAATTTAAGTTTATCTCTTGCTTTCATTATTTCTAATCAGCATA
CTCTCCATATGACAACTATATCTATGATAAGAAAATTGACTTCTTTACCTATAAATCTCTGTACTTTCTTGACAGACAC
CAAAGAACTACATGTTGACTGTATCTTGCTGGTAACTTAAGGAGAATAGTAACTTGTAGTTTCCACCTTTAGCAACTGG
ACATTGGCCATACTCTGATTTACCAAGAGAGTCCTTGTAATCACAAAGGAAAGCAGCGATTTGGCTTCAGATATTAAAG
CAACTTTTTTTGACGTGGCTAGATGGTTAGGAACACACTGAAGAATAGATTTTCAGTAATGAGCCATACTTTCAATGAA
CGTCCCAAGGAAAACAATTTTAAGATCTTGCATAAAATAGTTCATATGCCTCAAATTTGCATTTAATTCTTACATTAGG
TTGAAAGCTCATGTAGAAAACATGTAATGTAAAAATTGGAGAGCCCAAGAACACAGTCATTTCCCCTTGGGTGCTAACA
AAAATATACTACCCAACAGTGCCTTTGTTTGCAGTCTAATATTTTAGAAGGAAAAAAAGACCCCACAAGCAAACATGTT
TTTTTTTTCTTAGTCCAGAAAGAAGAAATACAGTGTGAACATAATACTTAGGGTAGACAAAATGGCCAAAATAGATTAA
GTTGGCATCCTTTTTAGCTGCAGCTTCCTTAACCTTGTACCACACCCTGACATCATCTTCCTACATGGCCACACCTCAT
CCCCCCATAGCCAAACATTATTTGCATTCATCACTCATTCGTAGATGCCAAATCAGACATGGTTCTTGCCCCTATGGAG
TTTATGATTAACTGGGGAAGACATGCATTAATCAAATTCTCTTTCTCTCTCTCTCTCATTCTCTCACACACACACACAC
ACACACACACACACACACACACACACACACATGAAACTGTGACTGGATCAGATGCTACGGGAGAAAGACACACAGGGTT
CAAAAATCTGTGAAGGGTTTTTTTATCTGTTCAGGGAAAATCAGGAATGTCTTCTCTGAGGATGAGTAGTTCAGGCTGT
GATTTGCAGGATCAGTAAGAATTAACCAGGAAAAGAAGGCAAGAGAGAGAACCTTATGTGGTGAATGAACAAATGTTTA
ATATAAAGGCAGCAGAAGAGCCAGGGTGGAGGCAGGCACAGAGGTGGGAGATAAGGCTCTGGTGGCCATGCTAAAGATC
CTTACTTCACCCTGACAGTGATGGATCATCACAACATTTCCAAGATCAAGAATGCACTTCCCATCTGTGTTTCCTCTAA
AGTCAAAATATGGCCCATCTTTCAAAAGGAAAATTCAAATGTTACCCATTCAGTCTTCTAACACTTTCATTTCCTAATC
TAATTAGAAAAGATCATTCTGGCTAAGAGGTGGTATAGTAGTTTAACCCACCCACTCATATGCATGTGTTTGTATTTAT
ATATAAAATTTTATTTTCACATTTCTTTTTCCTAGTGGCATTAGCAAAAGCACTCCCAGTTTCATTGAGTCTCTTTTAA
GTTTTGCTTCCCCTCTCCTCCTCTCTTCACTATGCTCTGCTGTCTTGGTGTCTCCCCACTACTCATGTACTCTCCCTCC
ATTTCTCAATTCTCATATGAGGGGAGGTGCCCCAGAGGGTGACGAAGGACAGTGTGGCAGAGGACAGGAGGAAGAAAAC
ATAGGCACAGCTGCACTTCAGCATTCTGAAGCTGTAATCATCCTGAGCATCTGTCCAGGGACTTCCTTGCCCAGTTGCT
TTGCCATCTGTACTTGAAGCCAAGGAGCATCAGGTGCTTTGCCTTTCCTCACCAGGCTTACGCCATAGCCTTTTCACCC
CACTACCCACACCTCCCAGTGATGCTGCAACTATTTCTCCTCTGGGCTCCATGCAGTAACTTTCTGGGTTTTTTTGGTT
GTTGTTTTAGAGCATTTTTGTAGACAGGGTTTTACTCAGTCATCCAGACTGGAGTACAGTGGTGCAGTTATGGCTCACT
GTAGCCTTAACCTCCTGAGCTCAAGGCATCCTCCCACTTCAGCCTCTCAAGTAGGTGGGACTACAGGTGCAAACCAACA
TGCCTGGCTCATTTTTTATTTTTTTGTAAATATAGGGTTTTTCCATGTTGCCCAAGTTGGTTTTGATCTCCCGGGCTCA
AGCGATCCTCCTGGTTCAGCCTCCCAAAATGTTGGGATTATAGGCATTATCCACTGTGCCTGGCCCAGTAACTTTCTAA
ATAGTGTACAGGCCTCCAGTCTCACCACCTGTCCCATTCTCCTTCTCTTTCCTTCTGCAGAGACCTAAGAGCCAAGCGG
AGCCCATCTCCTTCCTACACATTCTTCCAGCCTCTTTAGGACCTGATTTCACAACCTCATGTGCCACACCCCAGCTGCA
CCCTCCTGGTGGAAAGTGTTTTGCAGCTTCTTAAAGATATCATTCTGCTTCATTCATCAACCTTTGTCCATGGTGTTCC
TTCTGACTAGAATGTGTCCCCCAACCCCTTTGCCTGGTGAGACCCTCCTCTTCCTTTGAGACCCATCAGAAGGCTTGTC
TCTTCTTGGAAGCTTCTCACCCCACTCCAGTGCTGCATCCCTAGTTTCTGTGCATCCCCTGCAACCTGTGCATCACTTT
TTCAAACATCGCTCCTCAAGTAGCATTGTGCATGCTGTTTTCTTGCCTTTCTCACTCACACAAATGGGAGTTTCCTGGG
GGCCTTTTGTCATCACCACCTGCCTGACTGGATACACTAACACTCAGCCTACCTGCCACCTACTTGGAACCTTACAGGT
GTTTCTTTGATTAATTAATTAATTCATGTTTTCTCCTCTTCTGGTCAGTTCTTCCACTTTACCTGTGCTTGTTTGGATA
TGCAGAGCTCTAGCTGGCGAGAGTGTCCTTCTGGCTAGATTGTCTCACCAAAAAGAGAATGGGTTTTCCCCATCCGGGT
GTCTCTTAATTTTTTCTTCCACTCGTGTTTGGACAAAATTATTTATTGACTGGAAGGACCACATGGCAACTCTTCATGG
CTTTGAGGCCCCTTAATGAGTGTCCAAGGGAGATTCTCTCTCACTTCCAAGTTCATGGCAGACATTTACCTACCCAGTC
AGCTTGAACTGAGCTCATAGAAGTTTTATTTCTGGCTTTTGCGGATCATTTTTTATGCTGTTCCTCTCACCTGAAGCTC
CCTTTCTATCTCTCCCTAGTTGGATAATAGTACACATATTAAATGTGTACCTTGTACCAAGTATGCTGAGACCTGCTTA
TAACTAATTTTGCTTGATCTTCATGAATAGTGTTTTGAAATAGCATTTTTCTATCCCTGCAGATAGGAAAACTAGAAAA
CAAAGAATAAGTAACTTCCCCAAGCTCACATGACTTGTAAGTGGCAGAGCTGGGATTTGAACCCAAGCCCCTCTGAAGC

Fig. 6.225

TAAAGCCTGTAGAGTACATGCTCCCTTCCTCCACATCACACTGCCCCTGCTTGTTCACACTCAATGTGAGAATCCACTT
CTCAAGTTTGTCTTGCTTATTCCAACCTGTTTTGCAATGAATCTCTTTCAACAGCTCTATAGTACCTGGCACTCACTTG
GCATCCATCATTTTCTATGTTGTCATGTTTGGTATCTTTTCATGTATGTAATGTGCATCTCTTCTTAGGAGTAAGACCA
GAACTTTTCTGCTCTGCAGTTTTCTCCCTGTGAGGGATGGTGAAACTTGGTGGCTAAGAGCATGGTTTATACAGACAGA
CTTCTTAGGTTTATATTCTGGCTCTCCTCTGTACTTGCTGTATCAGCTAGGGCTGATGTCTTCACTTTTTTATGATTCC
ATTTCTACCTCTGTACAATAAGGCAAATATGAATACTTACCTCAGAGTGTTGTTGTGAAGATGGAATGAATTAATGGCC
ATAAAGCACTTACAGCTGTGTCTGGTACATAGTGACCACTCACTAATGGTCACTTATAATTCCTTCACAACCTGTAAGG
GTCCTTTCCACCCAGGTGATGTCCCTATGTCTCAACTGAATGACTGGTTAGGGATATCTTTCCATGGGCTACTGTGGCT
GCAGATAATTGCATTCTTATTTGAGAGTTATGTTAACTAGTGTGGGCTTTTATTTGCTTCTCTCTTTCTATCAATGAGT
CCTGCTGCTTCAACCCTGGGTTAACTGAAATTTGAAACCTTTTTCTACTCAAATTCCTTTGATGCTGAAATTCCTCTGC
GGTCACAGCTAAGCACTTTGTGTGGTAACCTTCTCTTCTGTCCTCAGGCCTGCTGAGATCATCTGCTCAGCAGCATGTC
TGACACCTGTTGCCACCTCACCCAGCCACTTCCTTGGTGACCTGGCAATGCCCAGAGGGGCCCTGCCAGCTTGGAGCCC
TGTGGCAATGCTGTTTGATTCAGCAAACTGATAGCCTTCTGACATTCCTTTCTTCATTTTAGCAGCCAAATCACATGCAC
CTTAATATTTATCAATAGCTAAGCAACACCGGAAGGAAGTGAGACAGAGCCTCTGGGCTAGTCACTATCTCTGATTTTA
CAGAATGGTTAAGCCAGGTGTAAAATATCTCACAATAACATGCCCTGTTGTCCTGAGGATTCAATTCCACCGAGATATA
ATTACCATATGAGGAAGTGAGAAATAGGGTTTCTTTCTAATACACAGAAAATAGAAAATAAGATGCTTTTCTTGGCCAC
TGTTATCAGTTTCCTGTTAAGGTTCTGCTTTGTTTAAAACAGTCCTGTTTTGCTTAAAAACAAACTCTAAGGAATTTTT
CTAAAACATGACTCAACCTAACTAGGTATATATACTGTACTTTAAAGTGAACATATTTGAAATAATTGTGAGTGACAAA
GAGACGGAAAAACATAGATTTTGAAACTAGCATTATTCTAATGATTTTTATCCCAGTGGTTTATTTGGAAATGAATTTC
CATTCACAACATCTTCATTTGTCTTCTAATTTTCATGCAATTTGAAAGGGTTAGTTTCCTTACCCACAGGATCATCCTG
GTCAAATCTCAAAAGATTGGCTAGGGCATTCTGATTTTACAGGCAAATTTATATTTTGCCGTTTCAGGAAATAATTCCT
TCATGGTTATCTTTTATAAAGAGCTTATTTGTATAATATATACACATAGTATATATCAAATAAAAGATCTGGTGTTATA
AACATAAGAATAAGCAATTTCCCTTTTGTGATAGGAATATGAAATTCCTTCTGGTAGAGGACGTTTAAGAGCATGTCCA
AAGAATGGCTAATCAATGAATTCTCTCATTTTGTAAGGAGACACTTAGATGGATTTCTGAAAAAAACAAAACAAAACAA
AACAAAACAAAAAACACTTTGGGCTTTCTCTGTATTCTTCAAGCATTTCTAAACATTTATTGACATATGCAGTAGAGAA
AAACTGGTATCAGGAGGAAGGCAGTAAGTAGCCAGCAGTCACAAGGTACAAAGAATAAAATGCATGCAAACATGTACAG
TATTCACTTTCAGGAGTTAATCTACATTTTATTTAATTTTTTTTTTTTTTTTTGACAGCGTTTCACTCTTGTTGCCCAG
GCTGGAGTGCAGTGGTGCGATCTCAGCTCACTGCAACATCTGCCTCCCGGGTTCAAGCAATTCTCCGGCCTCAGCCTCC
CAAATAGCTGGGATTACAGGCATATGCCACCATGCCTGGCTAATTTTTTTGAATTTTTAGTAGAGACGGGTTTTTGCCA
TGTTGGTCAGGCTGGTCTCAAACTCCTGACCACAGGTGATCTGCCTGCCTCGGCTGCCCAAAGTGCTGGAATTACAGGC
GTGAGCCACCATGCCTGGTCCCTTTTAAAATATTTTAACACTGAGACCATATTACTGATGTACTACTTCTTTCTAAAAG
TAATTAGAATAAATGTACACCCTCTTCTTTAAACTTTGCATTTTTCAAATTTCCAAAAACAAAAACTAATTATAAGTAA
ATCCATAAGCAAAACGCTGTTAATTACCACTTCCAAAATCTGGAAGCGGTGACTTGCTTTACTAAGACAAGAAACTTTA
GACAGGTGAATACTTTTAACAAGGAACACACTTAACTTTGTCTAATTGAGCAAATTACAAATCAGAGCTAGTAGCTTGT
TAATTATAAGAATATCTCCATTACTTGAATACGTGTACTAGTCATGGTAGGCAAAATAATACTCCAATAACGGACGACC
CCACTGTGGATCTGAGAACCCCGCAGGCCAGCAGTCTCCATGTGATTGCCAAAAGCAATGCCGCCATATAAACCACAGG
TGTCTACCTTCACCATGACAGAAGAAAGGGTTAGAGATTCCAGAAGTCACAATTAAATGCTTCCACCCCGAAAAGTGGA
TCATATTTCATTTTCCAAAGCAATGCAACTTTGTTAACCTCAAAGAGGCAGGGAAGTACAATTTTCCTGTGGGGTTGGA
AGAAGAAAACTGGAAATTGGTGAACAGTTTTGAAATGTCTGCCATAACTTTTAAGTGAGGAACTTAGTGTTCTCTTACT
CTGTCATGTTTTTAAATATCTTTTTGATTGAAATCTTTCAAGGCTTTCCAGATCCCTGAAGATAAAATACAAACTCTCC
AACAAGACCTTTTGGCCATCAGGAACGCAGCACCTGGCTCTCTCACTAGTATCCTCTCTCTGTTTGCCATGTCCCATTA
AGACTGTCTCCAGAAACAATGAATTTATTGTTGCCTGTTTCCTGCTAGCTTTTCCCCGTATTTACACAGTTTGCTTTAT
CTGCTGGGATTACCCTTCCCTGACTATGCTCAATCTCTATCTCCCTTGGCAATTCTCCTCCAGGCCCCAGACCTGAGAA
CTGGACCAGTGCTCTGCTCTCTCCTCTGAGCTTCACCACATCCTGTGAAAACTTGAACCTAATTCTTACTAGGTTTTAA
TCAACTGTTTACCTGTCTTTTCTCCCCACTAAAGATGAAAAGTCGCAGAGATAGCGGAGAACAAGAACCAGATCTCACA
GTCATGGTGCCAAAAGAGTATCTAACCCTGAATTGGAGTTCAATACATACTTGTTGAATGAATGAGTGAGTGAATGAAT
GAATGGGTTTTTTTTGTGCTTTCATCTACCTGATTGGTAGCATATTCAGGACAGTATGTTTTTCTCACCTTTTTACATG
CTATAAGACATAAAACAGATAATGCGTGTAGTGGGTTCATAATAAAGGTTTAAATAAACTTTACCTACAGTTTTATCAC
TAGGAATATATTTCTGATATCTATTACCTTTGAACTTTTTATGCCAGATTATGTTTAAAAACATGGTGTCACTCGTAAG
CCACATCTGGGACTGATTTTCATGGATTGATTAAACTTTACATTTCTTCGGAGTATTCACTGCCAAGCCCCTCTGGTGC
CATGTCCTAAACCAAATATTTCAGAAACATTGCAAAACAAGGCTGCCCCTTGTGCTTTGGAAACGCTTTCAAATGACATG
CCATTCCTTTCAACTTGAATCTATTAAAGACTTGAAATTGTAGCAATCCATTGGACTATATGTCAAGAAACTGGTATTT
TTAAAGGGTGGCATGTTTCTTCATTTATATGTAAATTATTTCCATGTGCTTTGGAGAGAAAAATGGAAATTTTGTGAAC
GTACTTAGCCCTTAAAGAATGTGATTGATCCTTGATGATGTCGTTCCAGACAACAACAAATACACAAGAACTCTTTTTG
AGTGCTGTAAGAAGCTTCTCAAAATTTCCAGTATAATCCTAGGAAAACATTTTTTTTTAATCTTTTCTAATCAGGAAGT
CTTTAAAGTGTATTTTATCAAAATGTTCAGTATTGTGGAAACATACTCATGAGCTATTAGCTATAGCTGACTTTTGAGG
TTATAGGTGAAAAGTTTTCACATCAGGAAGTTTCATGTAGAACAACCAGCGTCATTCACGCTCATATCTGTGGCTTATA
TCCAAGAGGGCCACTGGAGGCTTAGGGGCTTTGAAGTTAACAGCATGAAACTTCTCCAAAACAAACATTTAATTTTTTT
CTGTTCGTTTCCTTAAACAAAGTCCATGTAATAAATGAAATAATTTGAAGAACATTGTAATGAATCCCACATACCAGT
GGGTCCCAAATTACTGGAAATCATAACATGGCTCATGTGAAGAAAGAATTATACTATTTTCAAGCTGTTGTATGTTAAA

Fig. 6.226

CTATTATAGTAAGTAGCATAATTGGCATATATTTTAGGCCGTATTTTCAATAAATCAATATTTTTGCTCAAAAGGCAAA
ATTTAATAATTTAATAATCTCATAAGGTGAAGGATGGCCAGGTACCATGTTAGGAATTTGACATGTGTTGTTTGCTAAT
AGACTCATTTAATAAATGAAGTAAATGATATTAAGCAGTTTCCTCATGACCACAGAGCACAGAGCCATAATTTGATTTA
AATATGAGTATTTCTGGCTCATGCTCTTTCTCTTTCTACCTATTGCCATTAGTGAAGGCTGCATTTAGTTTTTTTTCA
AGAAGTGTCTAGCTTACAATTTTGAGCTTCACTACCCCCAACCTCATACACACCTCATGTGGCTTAGAGCTATATAAAA
TCCATGTTTTTAAATACTTCTAAAATTGGACATTCATATTATGTGTATGATGTTTTACATATAGTATGAGTGCAGTGA
AAGTTAGTTTCCTTAAGTTTTCCTGAATTCAGCTGTTACCCTAGCATGACTGCTTCAGCGAAGAGATAAGAGCTTCTTT
GACTTTTTCCACTGGAATTTTTCATGCCAGAAGAAATTGAACATGTGAGCCTGGTGTCTGGAAGAGTAGCCTGGATTTA
TGGTATCAGATGCACATTTTTAACACCTTCAGTTTTCTCTTTAAAATATCTCTTCAATCCCTTACTTTTCTCTATTTGT
TTCAACATTAAAATATGTTATTTTTCTTCAAATTGTTGGCATTGACACCTCTTCTACAATTCCCAGTCATCTGCATGCT
ACTGCTTCAGAGGAATAGTCTTATATATAGAAAATACTTTTTTTTTCTCAGCACATTTATATCTAAACAAGAGAATGAT
ATGCTTTTACCCAGTTATCTGCGTGGCTCACTTCCTTCAAGGCTTCACCCCAAAGCTACTTCAATGTAACATTTTCTAT
CCATTAGATTGAGAACTGCAGTTTTAATCCCTAACCCCACTCCCAGACTCCCCTGCTAAAGTTTTCTCTATTGTCCTTG
TCATTTTCTGATATACCTTCTAATTTACCTATTTATTTTGTTTAATATTCATATCCCTTCGACTGGAATGTGAACTCCA
ACAAAAGTTCATATTTATTGTCTTGTTGTATCTCCATAGCTACAGTAGCACTTAATATATAGTAGATGCTCAGGAAAGA
TTTATAGGAAGAAAAAATGAAAGCATGGTTTGCAATAAATCTAAATCTATAAACATTCCTTTTTTAGTAGTATTGTTAA
ACCTTACGGTTCCTGTACAACCAGGTGTATGCCCTCTAGAGCCACCAATAATATTCCAATATTAAATATACATAATTTT
ATAAACAGGTGTGATTTTAATGTCTCTAGACCTTTCCAACCAGAAAAGCTGAATCCAGGTACTGCTGGTCTTTTTCCTT
CCATAGGTTCTCATTTTCCCTGATGCAGTTATTGCCTTTTCTGTTTATACTTTCTTCCCTTTAGGTGACTTCACTTACA
AATATAGGAATGCTGATTCATGTTTAGCATTGTGTGGTTTCAGTATTTATTTTCTGTATTTCCACATTGCTATTTTAGC
TCATTCTTTAATTAAATAAAATGCCTTATTCTCTCACAGTATCAGCAACTAAAAGAAGGATACATCACCTACAGTTGTT
AGTGTGAACTGCTTATATTAACTCATAGGATATATATTGGTAGACATAAACCTACTGACTAAATTATTTCTGAAGTATA
CTCTACAAACCATCATTGTATTTTTACATTTGACAAAGTGGAAAAAAAAAAACCTGGCCACAATCTTTAACCCTGCCCA
GTGTCTCTGGCTTTTAGGCACACAGCCAGTCGGCAATGGCGGCAGGGGTGGCATATAAAGATTCTAGATCTCAAAATGC
CAACCTGGCCAGAAAATAAAACTCACTATGTGATACCATTGGAACAAGCTTCTATACCAATGTAGGGGGTGATGGAGGA
TAATATACATTGCAAATTTATGTAAAACCAGACCATGTGGTATTTCCAATAGTTGTTACAACATTGCTTAAAATGATAT
AAATGGCCTTATGGATAAAAGTAGAAGTTTAATTTTAGAATAGTTCCTATTTTAAGACTAGATTTAGCAAAAATCCTTA
TGGCATATGTTTACTCTTGGGGAACCTTGAGAGATAGTGAACAAGAAACGTTAGATCATAGACTTCTTGGCTGCAAAAA
GTTTATTTATTTCATCATTTTACTCGTATTCCTTTTATTATTTGAAAAGCTTTGTATAAAGGATTTTTAGAGATGGCAT
TTCATTAAGGTTATATTTATTAGAAAACAAACTTGAATAATTTAAAATTACAAAAGGTAAGTCATTTTATGTATTTGCC
TACTTGTTTTTGTTTTCTCCCTGCCACCCTCCCTTTCTTCCTTTGTCCTTCCCTTCCTCCCTTCCATCCTTCCATCCTT
TCTTTATTCATGCCCTGCCTATTTAGAAAAGGATTTGCAGTAAGTTACAAAAAGTACAAAGTCAATAATTTTTTTTAA
TTCAGAATGTTAAAAAGAGAAAATTGGGTGAAGAGAAAGTGAATATTTCAATAATAAGAGTCATAGTGCTTCCTCTGAA
GGAGCCCAGAAACCCATCTCATAGTTACGTGGTGGCCAAACTTAGCAGGAAAACAAAAGAAATGCTAGACGAGAAGAAC
ACAACATCCATTTCTCAGGAAAGACTAAGTTTTCCTCGTACAGAACCCTGAAATGTATTCTCCCCTGGGATACTGTTTG
GATAAACAGTGAGTGCTGTAATAGTCAATGTCTTTACCCACTGCTTCACAGCAAAGCAGAATTCCCAAGGTAAGAATGT
GACCATGTAACCTCATTGCCTCACCATTGTTCTCTCCACTCTAATATTTCAGTACTAAATGTGTGTGTCTCTTAGGGTT
GCTGTGCTGAATAAGTGAGAGTCACCTGGCACAGCAGACATCTAGTGTGTGCTAAAGAAATGTACAGAGAATGAGAGAG
AATTTGAATAAAAAATGTAAATAGAATATTATACAGAAGTTAGGAATTAATTCACAAGTGTGTAAGAGATACTCTGTCT
CAGATGTGCAGGCCACTAGTAGTGCAGTGTGACACTCACTGCCTCTCAAGAGAACTTAGTAGTCAGAAAAGTGAAGAAA
TGACATAGCTTTTTTACACTATATTATGTAGAAAGCTTATTTTTTAATGTTAACCAAGAGCAAGGTCCATAAACTCTAA
TACCTTCCAGAAAGCACAAAAGACATTGAGATACATTTAGAGAAATAGAGGAAACTGAGCTAGATATTCACGTGAAATA
GGATCATTCCACATCTTCCAGCAAATAAATTGAGGTGACCAAGGTCCCAGGGAGCACAGATGGTCATATTCTAATGAAG
CTCTGGCTCAAAAACACACAAGCTGAAAACAAGGCGAGGATGCTTCATAACAATGTCCTTTTGTAGGAGAAGTGAGGAT
TAGTGATGAGGGTAGGAGTGGAGCAAGAGACAGGGATTAATTTGCATAGCCACCTTGGAATCCCAAACTGTCAATGGTG
TCAGTGATGCTGTTTGCTTGAGTCCCTAAAGGGTTGAATGAAAGAAGTTAACTAGATACAGAGTTCACAGAAGGTCAAT
AATCTTAGCTTTCCAACAAGTTGGAGATCGGGGTAAGGAGAAGGGCAGACCTTAAGAAAAGAGTTATACTTATTGCCAG
GAAACAGTGCTTCCTTTTGCTGTTTTTCCACAAACAGATTTACCTTTGCCCTATGCATTTCATCTTATTTTAAAAAACA
AAACTTTTATTTTAGGTTCAGGGGTACATATGGAGATTTTTTTAATATAGGTAAGCTCCTGTCATGGGGGTTTGTTGT
ACAGATTATTTCATCACCCAGGAACTAAGCCTACTACCCAATAGTTATTTTCTCTGGTTGTCTCCCTCATACCACCCTC
CACCCTCTGGTAGGCCCCAGTATGCTGATCCTCTTTGTGTCCATGTATTTTCATTATTTAGCTCCCACTTACAAGTGAG
AGCATACAGTATTTGGTTTTGTGTTCCTGCGTTAGTTTGCTAAGGATAATGCCTCTAGCTCCATCCACGTTTTGCAGAG
GACATGATTGCATTTTTGTATGACTGTATAGCATTCCATTATGTACCTGTACCACATTTTCTTTATCCAATCTGCCATT
GATGGGCATTTAGGTTGATTCCATGTCTTTGCTATGGTGAATAGTGCTACAACGAACATATGTGTGCATGTGCCTTTAT
GGTAGAATTATTTATATTCCTTTGGGTATATACCCAGGAATGGGACTGCTGAGTTGAATGGTAGTTCTGTTTTTAGCCT
TTTCAGATGTCACCAAGCTGCTTTCCACAATATTTAGTCTTCTTACACCCCCAACCCCCTTGGAAGTTTAGAATGGAAG
CACATTTCTTCAGATGATTATTAACTCTTTGCTTTTCTGTTTTTACTGCATCATTTAAATTATGGTGTGGAACATCGA
AAAGGGCCCTAAAGCCTCTATTGTCAAGTATGACTGACCTCTCTTGGTAAAGCGAGACCTAGTTCTGACTGAGATTCCT
CCAGTCGTTTCATGGTTAACTTTCCATTCAGTTTCAGTTGTATTTCATTGTGTTTCCTGCCCAGTGGAGATTCAGCATA
GATGACACCTAAGGAAAAATGCTAGTCATAGTGTGAGAAATCATAGCCTTCTCTTTCAAATGCTTTTATTCATATTCCT

Fig. 6.227

TTGGACTTGATTTTAGATATTGCTCGCCAAATTTAGCCATCTTTCTTGGTAGACATTTCTGAAAGTTTAGTGATTAAAA
GCTTAGAGTCTAGAGTTAAATGGAGTCTAGAGTTAAATAGTCTGGGTGTGGACTCTGGCCTGGTCACTTGCCATCTGTG
GGCAGGCCACTTCTTTAAGCCTCAATTTTCTCCCCTAAAAAATGGAGGGGGATGGGGGCCATCATGATACTTACTTTAT
AAAGTGGTTGTGAAGATTCAAGGAGAAGTTGATACATATAAAGTTCTTAGAACAGTGCCTGGCAGGCTGTAAACAACTA
TAAAAAGTTAATCATTATTTTCAGAAAAAAAGTTGAGTCAAACCTGAAACAGTGGTACAATGTCAAGAGCAGGAACTTT
GCCTTATTAATTGTGTCTTCCTAACTCTATGGACTTAGGATCTGAGACTCTAGTTCCTACAAACTCATCCATCCTGGGG
CCTGGCATATGGGAGCTATAAACCACATCAGCCCTCCTTTGCTCTTTTTCCTTAGGGCTGCCCTGAGGAAGAAAGCTAA
TGTGTATAACATCTAGCATTATGCCAGGTATGTGGCCAGAGCTCAAAAAACTATAGCTATTATTGTATTATATACTTTG
CTCTATTTTTTATACTCCTGGTTAATGACGGAGAGCTCTGTGAGGGGCTGCTAGAGGGAAGGTTCAATTATTTTAGAAG
CTTTAGTTCTTCCACATTTCACTTTGTAATGTTTGCCTTGCCTTGTATTTATTAAACAATAGTTTACTATACTCGTTCC
TAAAATATTAAGTATAGCTTATTATGCCCTGTTAATCTTTCTCAGTGGCATACAATAATTTAAATATCTGCTTGAAAAA
TCTCACCAAGCATTCATTTTAATGTGGCTTAGAATGTTATATAATATGAAAAAGTACGTGTTCTTTCAGAAATTAGTTC
CAAAGAACTCCCTATATCTAGAGACAGGCTGTGAGAATGGAGAAAGTTGAGGAGTGTCTCTGTTAGGAATCTTACTACT
GCTTTTAAATTTCATGGAACACCTATTAAATTGCTTCGCAGCTAGGTTATGAGGAAGGGGAGCCCTGCTCACTCTTTTA
AAGTTAAAAGTGAAAAGTTACTTGCGGGTGATTAGGGAAAACCATCTCAGAGGAGTGGACTGTTGGCATGGAGACCCCA
CATATAACTCTTGGGGGATGGCAAAAACTTGAGAGAGGATGCTTTATTTCTCACCTCCTAAAATGCCTTTCCCAGCTTT
CTGTGGTGAGAGAGAATGAGACAGCAGTCATACCTAACAGTTGGTGAAACAGTTCTATGGGAGTGAGGGAAAGTGAGGG
GCCTAGGATGAGTCAGAAACATGTACATACGGAAAGGGAGAGAGACAATCCTGATTAAATTGTGCCTTCTTGCAAAAAT
ATATATATTTCCACATTTGATACAAAGTGAAGTATATAACCTTGACAAAGCGATATCTGTCAGAAAAAAAAATTAGAAAA
ATTGCTTTAAATAAACAGTCCTTCAAAAGATGTCAGGCACAGAGACTTTCTGAGAAAATGTTTCCAAACTTTTAAGGAA
CAAATAGTATGTTATATAAATTTTCTAGAGTTTGTGAAAAGAAAATCAACTTTTCAATTCATTCTATCAAGTAGACCTA
TTTGCAATAAGAAGGAAGTCCCTCAACCAATCTTACTTTTCGGTAGATAAAATCTTAAATACAACTTGGTAAATTGAAT
CTTGCATTTTGTTAAAAGATTCATGCTCATGTCAAATAAGGCCGAGTCTGTAAATGTACATATAGTTAATTTTGATCAA
ATCTGGTCACAGAATCCATCATATTAATATGGTGAAAGAAAAAGCAATAGACTTGTATTGACAGGTGCCACAGTGGCAT
TTGACTAAAACTTAATATCCATTTGTTGTTAGTTTTTTTAAAAGGATGCAGTGAAATAGCAACAGAAGAATATAGTGT
TTATTTCAATGGTGAAACCAATTTTTAAGTGTGAGTCGTTTCTATTAAAGTCAGCTTAGTTATAAGCAATAAGACGTAA
CATAATATTTGTATGTAATATTTGTTTGGGAAGTTGTATAGTTATTGTCAAGTTATTGTTCTAGTACAACAACTTGAAA
CATAAAATATAAAATGAAAACTGACTTTATAGCTATGTGGGTATTTACCTGGAAGAGCCAAAGGAATTAGTTGAAATGT
TATTAGAAATGATTCAGTAATTCAGATAGGTAGCCAAATACAAAATTACATATAAGAAAGCTATTAGCTTTTTTATAGA
AAGTAATAATCAGTTAGATATTATAATGAAAAAAATAAAATACCTCTTTATTTACTTACTTTCTTACTGTTGTCCAGGC
TGGAGTACAATGGCACAATCTCAGCTCACTGCAACCTTCACCTCCTAGGCTCAAGCAATTCTTCTGCTTCAGCCTCTTG
AGTAGCTAGGTCTACAGACATCCACCACCACCCCTGGACAGTTTTTCAAAAATTTTTTGTAGAGATGGGGTCTTGCTGT
GTTCCCTAGGCTGGTCTCAAACTCCTGGGCTCAAGCAATCCGCCTGTGTTGACCTCTCAAGGTGCTGGGATTATAGGTG
TGAACCACTGTGCCCGGCCAATTCTTTTTAAATAGCACAAGATTCTAGTCACAAAAACATACTACACCTATATTTATGA
GTGAAAATAATAAGAAATTAGAAGGGTTTTTTTGGTATTGTTGTGAAGAAAACAAAAAATGTCTTAACTAATGCTAAACA
ATCCACAATATTCATTCCACTATAGGCAATTCCAATCACATTTTATTTTTGATTTTAATAAAGTATTTCAAAAATCAAG
CTAACATGGGAAAATCAAGAAAAAGTTGAAATAAAGCACAGTGGGTAAAGGTTGGAAGGATGTAGAACACACCATTCCA
GAGATTATATCATAAAAATTACAGTAACATATATCATGTAATATATAATATTGTAAGAATTAGGACGGTGGCTCAAATG
AAGAATTAGATAAAGTTGATTTGGATAGACTATAGATTTCAAATAAGACTCATTTATGTATTTGTGTGTGTGTGTGTGT
GTGTGTGACTGAAGTAGCATTTTATTCAATGAGAAAAGGGATGATTATTCAATAAATGGTGTTGAAAGCAACAGCTATC
GTTTGGGAAAATAATATAAAGTTAGATTCTTTCTTTAAACCTTATATAAAAATATACATTGGATATATATTTTATTAAA
TATTTATTTAAATAAAGATTTCATTAATATATAATATATAATTTTATTAATGTAACAACTAAAAAGTAGTTTAGTTAAA
ATTACTAAAATAAAATAAAAATGAGTATTTAAATTTCAACATAGGGAGGATATTTCTAAGCATATCACTAGAGCGAGAA
AGCATGAAGAAAATGTCTGATAGATGTGTATACATTAAGGAATCAAATTTTTCTACACATCAAAAACACCATAAAGAAA
ACGTAAAGGCAAATGAAAAGGGTGGGATTCTATTTCCAGTGTTACTAAAGAGACATTGACTTTAATGTCTTAAAAATCC
TTAGAAATCGTCCAGGTGGGGTGGCTCACGCCTATAATCCCAGCACTTTGGGAGGCTGGGGCAGGTGGATCACGAGGTC
AGGAGTTTGAGACCAGCCTGACCAACATGGTGAAACCCCGTCTCTACTAAAAAATACAAAAATTAGCCAGGTGTGGTGG
CACGTGCCTGTAATCCCAGCTACTTAGGAGGCTGAGATAGGAGAATCTCTTGAACCTGGTAGGCGGAGGTTGCAGTAAG
CTGAGTCATGCCACTGCACTTCAGCCTGGGCGACAGAGTGAGACTCTGTCTCAAAAAAAAAAAAAATTCTTAGAAATTAA
TAAGGAAAAAAATGACCTTTCTTCCAGGAAAATGAACACAATCCATAAGAAACACAATTGGTGAGTTACATGAATAAAA
CCCCAACTTTAAAGAAATACAAATTAAACAATAGTGAACTAACATTTTCTCTAAAGAGTATTCAAGATTAAAAAACAAA
GTCAAAACTAGATGATAACAAATTCAGCGTATTGACTAAAGTCAGGACATTCTTATTCATTAGCAATGAAAGTGAAAGT
TTGAGTAGCTTTCTAGAAGAGAATTCAAGTCACACTATGAACCAACAATTTTACTTTGAAGAATTTATCCTAAGAAAAA
AATTAAGAATATGTGAAAAGATTTAGTTACATCAATGTTTATTATAGTGGAAAACTGAAAATGTGCCAAGAAAAAAAAT
GAGCCAAATATTCAGCAGCGGGAATTAGCACAATATACCTTGATATGTTATCAAGGTAAATGTGTATGATAGGATACTG
ATGCATAAGGATAATTTTTAACATGGTAGATTTTCATTATGTTAAATGAAAAAATAAAAAATACATAAAATGAGAGCCC
ATTTTTATAATAAAAAATATATAGTCATTCAAGGAAAACATGTAGACGGACATCACAAAATACCAACAACAGGTATGGT
TCAAAGTGTTATAGGTGGTTTTCAGCACATAGATTACCCCTAGCAAAGAGACCTCTGTGACACTTCGTTTCTTCATCTG
TGAAATAAAGGAATCATACTAGATTAGTTCTAAATGCTTTTAGCAAAAATATTTCATAATTCTATGAGTATTGATGGTT
AATAACCTTGAGAAAATTGTTATTATTTATTGAACTTTGGAGTTAGTAGAGTAAAACCAAGTTTATCCTGAGCTATCCC

Fig. 6.22b

TTGTTTTAGTTAAAATTAGTTAAATTTAACATCCTGATGTTTATTTATAAATTGTGCATGTGTACATGTGTGTGTTTGT
GTGTATATATATAGCGCTTTCTCACAAATGCCTGTTTTGCTGTGGAGTGGGTTGGGTGGGTACAGAGTTTCACTGAAAT
GTATATTCCCCTATAGAATTCTTAGAGACACAAATATATCTTGTTAATAGGTTATATATATTTTCATGTTTCATCTACC
ATTTGAAACCCTATAACCATTTGAAATCATTCTTGGTTTTGGTAGGTTTCTTTAATTAACATTCACATTGAGAAACTAT
AAGAGATTCAACCCTTGAAAAAGTCCTTTTGCTAAAGAGATTTGCATGTGCTCTAAAAATTGGTGGAAAATGGTTCTGC
TCTAATCAAACGAATGTCACTCTACTCTTATTTCTAGCTAACAGTAAAACTGCCTGGAAAATGATAACGTACAACAAAT
ATCTCAAGTGGTTATTTAGTACCTTGTTGTGATAGTGAATGAAAAACACACTCAGTTCACTCAGTTTTAATTTGCTGTT
GAACACTTAACATTTCACAGTGGCTGGCTGTTTGGAGGCCATATACAATGGTAGAAAAAGTAGCTTTCTAAAAGTGCTT
TGCCTCATTCTTGCTTAACCTGGCAGACGTCATGAACTTCCAAGAGGGAACATATTTTATTTGCCTTATACCACCAGAG
GACTTGGCCAATTATTGCTATTTATTTAATGTTGGTGTTGACATAGTGCCTTTGCCCTGAGGAGCTCCAGGTGCTTTAT
AAAATTAGTCAGCAATTCACCTCACAGCCTTTACGCCAGAGAGTGAACATTGAAAATAATAATGATTCGTGGAACCTAC
AGCCACCCCTAACTCCTATTTCTGTTTGCCCAGTGAAACAGAACAAATATGCCCAGTTCCCTCAGAGAGCTAGCAGAAA
AAAGTTCTAGTGGGGTGTCATGGGAGTTTCTCTCTTGTGTAACTAGGTGAACTCCTGTAAGGAAAATTTGCCATGCACC
CTGCAGAGCTGAGACTTACTATTCTCTGTTGTAGGACCCATACTTTCCCCAGTAAGGAACTCCATTTTTTTTCAGGCCT
TTGCTCAAATATCACTTTCTTAATAAGACCTTTCATGACCATCTGTTTTTAAAAACAACTAATCAAAACCTATCCTCAA
GTGCAGACTTTCTGTATCCTCATTCCTGCATTATTTTTCTCTGTAGCACATGTAGCTATTCAGCACACTTAGATTTTTA
TTTATTTATTAATTAAGGGTTGACTCCATCCCACCAGATCGTAAGCTTTATGAAGGTAGAACATTTGTCTATTCTGTTG
AGTTATGAATCTTTAGAACCTAGGTGGGTGCCTGGTACCTAATGGGTGTGAAATAAGCATTTGTTGAATGAATGAGCGA
AGGAATGAATGAATAAATAAATTTTCCCCAGTGGAGCAACAAGCAACAGTTGGAGTCCCTTGTTGTCAATCAAATATAA
AGATAGCAAAGAGTAAGTAAGCAAGAGTGAACTTGCATCATATCAAGATTTCTTTTATATTCCTTAACATTGAAAATAT
TCATGTGGTGAAATACAGTATTAGAGTTTTCTCCTTTAGTTGCAAATAATAGAAACTGAATTTAAGCCGACTTAAACAA
AATAGCAGTTTGCAGGATCTTGAAACTCAAAAATTCAAAGGATACAGCTAGTTTTAATGGTTGTGAGGATTGCTGCAGG
CCCTCTCATGATTTGATTGAGCGTTTGTCTCTGTCTTTCTCTTTCTCTCCTTCTGTCTCACTGTGTTTCTAAGACTTTC
TCTATGTGGTAGCAAAGAAAGCTCAGACAGCACAAGGCTGCCTGTAGTAATTCTTGTGACATGAGAGCATACATCTCCC
AGTAGTTCCAAGGAAAACCCAGGGCTGACTTGAAACGTGTGCACTTGGATTACAGGTCAACCTTGAGTCAATTGTGACT
GACTGACCAGGCCTCTGTGTGTCCCGGTTGTGGAGGTCAGTTCCATCAGTAGGAGGGGGATTAATCAAAGGAAAATCAG
AATTCTTTATCAGAATAAGAGGAGAAGATGCATGACAAGTATTCAGAGATACACTGTAACCAGAAAAAAATGGTCATATG
TGAAGAGTATCTCATTACAACAGGGAGGAATGTAGTTCTAAGTCTTTTAAAGTTCTGCTTTCCTATAATATCAGATGAC
CACATATTTCACAGCATAATTGTGAAAATGATATTTTGAAAGGAAAAAGGAATTCTTATCTGAGATAAAACTGTCAAAA
AAGTCAAAATTTGGCTGTGAAAAAAGTGAACGTTTACTTGAGGTTGTCATTACTTATTTCCTTCTTATATATAATTCATAT
AATTCTATATTATTATGACATTCATATAGGCAAGGTGTTAAATTCTAATTTGATTTTATAATTTTTCAAAAGAGACTTA
GAATGTGCTAGAAATCCTAAAAATTTCTGTTCCAACTATTGGTATTTGAATTATGTATATACTGCCCCTTTTTTTCCTA
TAAAAAACTGATAGAAGTTCATAGATAAATAAAATTCACAGATAATGTTACAAATTTATTTCAAATGTTACTTCTTGCC
TTTTTCTATGCCAAGATACTTAACAAATACTTCAAAATTGAAAGTATTTTTACTCCTTATTTTATCTATTCCACAGAAT
AGTTAGAGGTAGAGGAAGAATTAGATAATATATTTATTAATAAGTCAACATCCTATTAATGGATGAACATAGAACCAAC
TCATAGGCAACACAGTCAGAAAATCAAGGTGTGGCTTGGTTGGCATGAAAGCATAATGCCCACAAGAACTACTGTTGTT
GGTTATGCTGTACTGTATGAGAAGGGCATTTCTGACGTTAGCTTTGATACTAGCCTTTTAGTAACTGAGTAAAGTTAGT
GAGTATACTCACCCAGTTCAGATTATTAATTCAGTACTAACTCAGTAATTTGGTGTTACTACATACTGAGATATCCAGC
TGGATTCAGGATTTGCTCAATTCAATTAGCAAATCCAGTGTTAAGGGGAAAAAGAAGCTTTGTGGGTAAGCATTTCTAA
ATTGGTGTTTTTATGAAGCCACAATATTCTGGTAGTTCGTCTTTTCCTTCAGTTCTCTGAAGTTGTAATCATTTCTAAA
TTGTTGCTTTCTAGGTAAAAGATGTGAGATAGGGGAAAGGAAGGCTTTCTTAGGAATTTTTTTTCTTTCATTGCCCAGT
TAAATTGGATTTGTGATTTATATCCATTCATCCTATTCATACCCATCATATATCTGTATACATCTGTCATATATCCATC
CTGTTCATATCCAATCCAATTCATAAGACTTTTCCATATTTTTCGTGAGATTAGATTTTTTTAGTGGGTGAGAAGAAAT
AAAAGGCACATAATATTAACATGCTCCTGGCATTCCAGCAACGAATAATGCCATAGCAATTTTATAAAGATTAAAAATA
CCCTAGCTCACTATGATTTTGATGAGCGCAACGCACTTTTGGCTTTGTGGGTCCCCTCCTCATAAAAAAATACAAAATTA
TATTTTGTAGCTGCATTTATGTAAAGATAAATATAATCTAAACTGTTTTGTACTCATTTTTTCAGATTTTAAAAGAGAT
TTAACATTTCTATGAGCTCCTAAAATTATGAGCTCTAGGAATAGTGCTTACTGTGCTATTGGATAAACTAAGCTGGCAT
TGTCATAGCTAAATTGGTTACATTTTAAGCTGTGAATGAAAGGGAATTTGGTAAACCAAACAACTGTTGTATGCTTATT
GTTCATTCCAGTATAAATATATTTTTGCTATTAACATTAGTTATTACAAGTGGAATACGAAGGGGTGGACTCAGGGTTT
GGAAAGAGAGTTAATGCAAGTGAGTATTTGACTCCATCAACAAAACTTTACAAGTAAAATCCTCAGGTTTTGTGCCTGT
AATCTTTTTACAGGATTTAATGCTATTTTACTTCGTCAACAATTTTTTTTTCTTCAAAGATTTGTATTTTTAAATGACT
GATGCTATGAAAGAAAATACCCTCATGATTATATTTATATTGTGAATTTTTACAGTAGGGGCAAACTAGAATTTTTCAT
GCGGAGAGCACTTTGGGTTTTACTCAATATAGCTCTTCAAAGTTCTTCAAAGTTCAAAGTAAAAATTGATGCTAGAGTA
ATTTTCCTGTAATCTAGGTGAAAAGCCCACATATCATTTAACAAAGTAAATGCTCATTCATATTTAATACAAACTCTTT
TTTCTTCTGTTGAAGCTGACTTTTATCCAATTTTTAGTTTCCAGTTATCTATGGTTTTGGGAAACAGAGCTAATTTGGA
TTCATGAATTCTGTAAACAAGTATTTCTTGAGAAGCTCCTGGTTGTGAACTACCTAGAATGAAACTGGGTAAACTAATA
TCAACATCCATTCTTTTGCCAAACATCACTGATAAACTGCAACATTTTTTTTTTTACGTGAGTGGTCTTGGAATCAGAC
ATTTCTGCATTGAAAACCCAGCACTGTTGCTGACTGGCTGCATGGCCTGCATCTACTTCTCACATTTCTGACTGCCTAC
CAGGTTCCAGGCACTGTTCTAGGCACTGAAGATGAAAAGATGAATAATATGGAGTTCCCATCTTCAAAGAAGTTACAAT
TTTAAGGAAGACTGGCAAATAAAAGTTACCCCACAAAATAATAAAAATACAGGGGTAAAACTAGGGCATAGTTATATTT

Fig. 6.229

TGGCTGGTCTCTTTACCTCTGAGGTTCTTTTGCTTTTTATGTAATTGGATTTTAACCTCAGAAGACTGTAAGGTTAAAG
ATGATAATGTATAAAATCAGTACTCTGAGTAATGATCAAAATTTTCTGTTGCCATCCACACATTTGAGTGAGATGTAGT
GAGTGCTAGAAAATAAAGCAGTTCGTATCAAAAAGGGTGTGTTGAAAGAAATAAACTAATCCTTGAGAAACACTGTCAT
GCAATCTCATATCTAGAAATTGTGCCTATGTTCTGTCTATAAATTGATGAATTGGCAGGGTGTTACATTTAGGACACAC
ATTGACACTACATATGACATTTGTAAAAACACTTGCTAATTCAGCTAACAGCTCGCTTCTCCCCTTCTCCCCACTACTC
ACTGTGGAGAGAGCTTCCAGCTAATAGCTTAGAATCTCCCAGACTAACCAACCATTGATGGAACCAGGTGCTATGTGAT
TGTAGGAATTTATTTGTTGCTCTGAATGTTAACTAAAAGTAATGGGCTTCTTATTTTGTCCTTTTCCTTTTGTGTTATA
GACGGCAAAGACTGTTTCTCATCAGTCTCATATAGCTAAATTAGATTTATCTCTCATGCTGACTGATTAAAAGGGTTAA
ATTCTGGGCACGTTGTCCCCTGAGTCCTCTGAAATCCATGTCAGAATAGAAGTGCTCATTACCAGACTCGATGAGGAGC
TCCTTTTCCAGAACTTCTCTCTGCTACACTCTAAGGACCAAGCACCTCTGCCTAAATTCCAAGCAACCATGGCCTGTGG
CAGTCTTGGAACTTTTGCCCTCTGGCATGGGTAGAACTAGCGTCAATTGGGTAATTCAATCCCTGAGTTCCTTCTTCAA
TGAATGAGAGAATCCAGGAATGTGTTGCCAGTTGCCTTTTCCTTGTACCTAGTTTTCCTTGCTGCAGAATGATGACAGT
CTATTTCCACACCTCCCCTCCTGCCACTACAGGATTTATGGTCTGCATGCCCCAGTTGTGAAGCTGGCATGTAGCATTT
TGTTGCCACAGGCCTGTGAGTGTTTAGAAGTTTGTGTTTGTATTTCCAGGGCTACAGTTTGAATATTGAAGGAACAAAC
AGCAAACAATTCAGAGGTCAAGCTGTGACTGCTTCCTCATTTGGAGAGCTTATTTTATGTCTGTATATTCTATACTCAG
ATTCCCACATAACTTGTTTTTTCCACCTTCATTGCTTTGGTTAGATGCTTTCAAGTGCATTTTTTCTCTAAGAAATCTC
CATAGAAGAGTTGTTTACTTGAAGTGATGGGTGAGCAAAGTTTGCCTGACGTGGAACCTCAGTAACTTTCCCCTAAGGA
AAAGTTCTGGCGTGTAGGGGTGGGCGCTCTTCCATCCAGACGGATGGGAACATAGCCAAGCAGCCAGGAGACACATTGA
CTTGTGACCACTGGGAAGGATGCCTAGCCAGAAAAGTCCCAGCAGCTGGGTCTGTTAATCTTTTCTGAATGAACCAGCA
GGCAGTTGACCTCTCTAAACCTGTCCTGGATTCCTTTATATCTTTGTAGTCACCTTTTTACCCCCTCAAGAATTCCCCT
ATAAAGTTGTTCTTAATAAGACTCTTTTTGCCCACTTCCCCCTGACCTTCTGAGTTGAATATGAATTTCACTAATTGGT
GAAAGAAACCACCATGACCTTGATAAAGCCATTTCTACTCTGGTTCCTCCCTTCTAAGAATTTGTTCATTCAAGCAAGT
ATTTGAGTCTAAATGGATCCACTTGGACATTTTAATAATTATCATGAACCTCAGTATCCTTAAAGTGTGGCTAAAACAG
GCTCAAAAAATTCAGATAGTGTAATCTACTTTCTCTCTCCCTCCTCCAGATTTAAGTGGATTAATTCACTTCACTATGC
CAGCACCTGAGTACAGAATAATTTATTTCTGTGTCGTTTCATGATGAAAGTCCAGCTGGCATTAGCTCAAATTATGCAG
CTGGCTATTAATTGAAGAAAACTTCCCTGTCACTCCTCAGTCAAACATGATCTGATTCAGCAGATCCTTTTCACTCTCA
TCTCTTCTATTCTACCAGTAGAATAAATGTAAATAACTTTCACTTGGCTCTGCTTGTCATGGATTGTAAATTACCTGGC
AGCATGCAGACTGACCACATTACTGTTTTGGAGGCGGCTTGTTTCAGTTGATTAGTATTTCTAGAAGAGTTTTGCACAT
TTCATCTCTGAGGCCTGAATGATGTCCACTAGCAGGAAATATTGTAGTCTGCCTTTTTTCTTACATACTGTATACTAAA
TTTCAATCTAATTTCAACAAGATGTCAAATTCTAGCACCTGTAGGGCAGGTGTTGGTCTTCTATGAATTGATTATATGT
TTTTCTATCATACTGGATGGTGTACAAGCCCAGGTTGTATTTTAAATAGAATTTCAAGAGAGAGATTTGTTCTGGAATT
TAGAAATATATATTATGTGCCAAAATTATTTGATGAGTGCATTTTGTAATTCTTAAAATACAAAACTACTTGGCATGAA
GAGATGCTATAGTATGTTAACAATTGTGGAACTTTTTCATAAGATGAAATTCTGTGCAGAAATGAGGGAGCAGAATTCT
TGTGGGAGTGCTAAAATGGTTCATCAATTTGATCCTCACAGCATATGAGAATTCACCAATTATATTACTCTCTGAAAAT
ATGTTTCAGTATCAAGGGCCTCTTTTTGCCCTTCCTCCATCCCAATGTCTGTACTCTCTGTACAGTGTGATCACTGGGT
GCTGCATGACCAGTCATTATTATACGCTCAGCCCTGAAAATGAACTTAAGATGGTAAAATCATACCTTGCCAGGATTTG
GGTGGCTGTGAGGGATTCAGTAGGATTTTAGCAACAGGGACTGGAAAAGAAATCAGAACTTGGCAGAGAAAAAAATAGC
ACTAGGATACTAGAAGAGACCTGGGAGAACTAGCTTGACCTTAGAGGCTGGTCTTGTGAGTCATTTGAGAAATAGTATC
AAAAGGGCATAAGAGGGCCCGGCATAGATTAGGCTATTTGGGGTTACAGGAGATCCAAAGCTAGAAGGGGCAACAAAAC
ATTGTGGTATGAGGCCATCCTAATTTGAACATCAGGCACAGGATCTAGTGTCCATGAAGTAGATCTCAGGGAATGGGCA
GCCTGAGAAGAAGAGTAGATCATGCAGAAGCCAGCAGTCACCCCTAGATCCAGATCTGAGTGTCATGACCTAGATGCAA
TTAAAATCCTTATAATGGGTCCCACCCTGGCAGGATTCTTTCAGGAACTCAGGCTGAGCCTGAAGTGAGTAGATTCAGC
TGAAGGGAAGGTAAAGAACTATAAGTTGATAGACTTGCAAAATGGAGAGGCTGCTTTTAGGAAACCATTGATAATAGTA
TCAATCCCATTGATAATATATGTGATTGCCCTTTTATAAGGCCATGTGCTTTCTGCACAATTATGATAAAGTATTTAGC
CAAACTTGTATTCCCTATATAAAGGGGGAGGAGATAGTATCCCATGGGGAATTCCTTCCCATATTATAAACTGGTAGAC
AACTTAAGCAAAAATGTTTTTACTCATATGAACACTGTTGAAGTATAAAGCCAGGTATTTAAGTCATGATAGGTGTTTA
TTTACTTTGAACATTTGCCAGAAGTTTGATGATGGGTATATTTGTAGACTGGGTGTTAGAGGTTGTTATATTCTAAAAA
GATATCTTCTGATTAATTTTCTTCATTTATAAAAACAATCTATTTTGATAACATTTAATTTATGAACTTTGGTGTCATG
TTACACTTTATACATTTTGGTTGTACATTCCCTGTAATGCTTACAGAGACAGCCAGTCAGGCAATAATTGCTACATACT
GAGCGCCTTCTATTTTCTGAGTACTATTGTAAATTATAGAGATAAAGCAGTGAACCAGACAGAGTCTCCATCCTAAAAG
AGCCTAGTAGAGGATGGGAACTGATGTAGTATCTTGTAATTGTCACAGCATGGTACACTTGCTTCTTCAGATGCCATTA
TTAAGGGCGTCGTTTCTTTAAATTCTGAGATCCCTAACTCAGCTTATGCCAGAACTGATGAGAATTAGACCTTCCTAAG
GTCTTCTTTCTTCCTAAAATGAATATTGAAATAAATCTATAAGATAAAAATAATCCTACCACCAAGCCCCAATTAAGAC
TGGATTTTTAACTTGCTCTTCTCAGCACAATGACACAACAGAGGACACAGAGGTTAATGGAATGTCTTTGGAGCAAAGG
AGATTTCAAAACCACCAGTTTGTTAGATTTGATGATCAGCTCTGCAAAATGTTTAAAGAAGATTTCTTACTCATATCTT
ATAAGTTAAGACTATAAATGGTTTAAATGGGGGAGGATGTGACAGGATTGAAAATCTTCCCCTTCCTTTGTGGCTATGA
GAATTCACACTGAGCAACAGGGAAGAGAAGGAACTAGAACTTGGAATGAGCCTGTGTGTGGGCCCCTCATTGTTCCAGGA
TTTACAAAGGGCTACGCTGTCATCATATTAAATAAATGGCTCCTGCTCCTTGTGCCAGCTTAATTGCCACCTTGGCTCC
CGAACAAAGAAATCACAATTGAGGCAAAACATGTTTTGCTATTGAAGGCAAAACCTCCTTAGAGCAATTTTGGGGTTGT
TTTTCCATTTAATTTTTTAACTTGCAGAAATAGCCCTCTTTTTTTCTGTTTTTTGGTTTTTTTTGTTTTCGTTTTTTTA

Fig. 6.230

AATGATGTACACTTGTGCTGTTAAGTTTCAGCATGGAATACAGGCTTTATGTATTTAGGCAGTAATGCTGAGTTAGATA
TTGGTACCAAAAAAAATGAAAGAAAGAGAGCAAGAGGACAGCACATGTCAAAATGCCTGATAGAACTGCATGGACAGAA
CTAAATGTGCTTCCCTACTGTTAGTTACACGTATAAGTCACATCTCAAAGCGTGTTCCCCAGGTTAGCATCAATATCAC
CTAGGAACTTGCTGGAGATGCAAATTATCTGGTTCCATCTCAGGCCTAATGAATCAGAAACTCTAGGTGGAAGGGAGCA
GTCCAGCAACCTGCATTTTACAAAGACCTCCAGGACACTCTGATGTATGCTAGAGTCTGAGATCCACTGGTGCAAAGAA
TACCATAGGACAGATGTACACTAACTAAACTAGTTCTGTTTCTCTTAAAATGACTTTGACAATATTTAGAATTTTGAAG
AATGGTATAGAAATTCATAGTTCGTGTGTGTGTTTGTGTATGTATGTGTCTGTGTGTGTGTTTTAGCAGAATTCT
ATTTTAGAAAATATGGGGTAGACTTTTATTTAGTTTTGTTATTTTTGTTATTTTTGAAAAATTAAGAGGTAAGCAGAGA
AGTATAGCCAGCTACTTCCATAATTTTGTAGGAATAATGAAGTTTATTCTAGCAGAAAGTTATATCTTATGGAATAACT
TCTCTAATATTCTCTCTAGACATATATTCTTTTTTGAGGCAGGAACACAAAAGAAAATTGGCTTCTTCATCAAGTTCAA
AGAAATGGTGTTTTAATTATGTAGAGAAGTAATTTCATTTTCTCAGAGAAATGGGTAGACAGATATTAGTAATTTAACT
CTCTTCTTAAGTAATGGCTGCTATAGCTCTTACCAACACTGAAAGAAGTAGAGTCAAATAGATTTAAATCTGGCTAGTG
ATTAGAATTTTTTGGGGGGTAGGGTGGGTGAAACTGTATTGCAGGGAGGTACGTTGTAATAAGACAGCTAGTTATTATG
CACTACCCTCCAGTTCTTTGACATGATAGCTAAGGGCATAGACAAAAATCTGAACTCTGTGGTCTTTGTACATATCTGC
ATTCAGATTAATTCACTTAACAAATATTTGTGGAGCACCTACCATGGGCTTATCACTATAATGGGCTAAGGTTGTACAG
TGAGCAAGATACTCACATATGTGATTCTTGTGAAGCCAGAGGTCCAGTGGTAAAGCTAGATGAGTAAACATCAATTACA
ATGAAGTATAATCACTTCCAGGATGAGGCAGAATATAGGATGTTATGCAAGCAGTCATCCTTGATTTTAGGACTGGGTG
ATGTGGAGTTCATGAATGGTTCATGGAAGAGGCACTAAAGCCTACAGTGTGAATAGAAATTAGCAAGATGATGGACAGG
GCAGGCAGAGACAAGAGCATATGCAAAGTTGGAAAGTGGAGAGTTCTTGACATTACCACATTACTGAATGTGCATATGG
TGGAGTTTAGGGTGCAGAGAGGACAGTTGCACATGCTCTGGAGAATGATGGGAGATGAAGCTGAGAATAATACAAGGAA
GAGAAAATAACAGGCCTTGCTATCCATGTTAAGAATTCCGGACTTCATTCCAACAAAAGGGAAAGTCTTTGAGGTTGTA
GTATTTGGCTGTGCTGTAGAGAGTGTATTGGGGAAGGACAGTGCTGAAGGAAAGGAGACCAGCTGGGACATTGCTGCAA
TAATTCAGACCGGTACTCATGGCTTGGACCAGCAGCAAGGGGAGAATGAAAAGTAAAGAGATTTAGGAAATAGCTACTT
AGGAAATAGATTGAACGGGAACTGGCATTCAATATGTGTGACAGCGAGGAACAGGAAGACACTTGGGACAACTAGAAGA
ACAGTAGGCCATTCACTGAGTTTGGGGTCCAGCAAGAGGAGTGAGTTTGAGGGTGAAATTATGTGTTCCATTTGGGCTA
GTAGGGTCTGAGAAGTCTGTGGTTGTCCAAGTAGAGATGTCCAATAAACTGTGGAAAATGCAATCCCTTAGGCCTCTTT
ATTCTCATAAATACTTCTCATGCTTTTTCACAGCAGAGGCTAAAGCCAAAAAACTTTTACAGTTGTTGATTACTCCCAT
AGTGATTGGGCCACTACTCTCGATGTCAGTTTTAAGTGTTATGTGAATTTTAGCGTTGCAGAATTTTAGCATTGCAGAA
TTTTTCTGCACAAAATCCTAGAAAGCAACTTAGTTTACTCAGTGAAACCTGCCTGCCAACTAACAAGACCTATTATTTT
TCAGTTGGGATTTTACTTCAACAGTGGAAACTATGACACAACAGGGATGGTCTAACCCCAATTTGAGCACTCTGTTCTC
ATTTTCATTAGGAATCACTTCCCTGTAATCATAAAATGGAAATATATTTACTGTAGACATGTTGTTTGGTGAAAGCAAC
ACTAAAAATGAGTAGATGAATATAACAGCTACAGGATAAAATAAGAGTTCCCATTTTTAAAAAGAAGGACTATGTTTAC
AACACAGCTCTCCTTAATGTTATAGTGTTATTATAGCAGTGAATTTTCAAATAAAATATTTAAATTGGAATGTTAGAAG
TTTTCTTCTATCATATCAAATAAGTGGAAGGCCACCTGTTTGATGATTACATATTCAAGTGATAGTTCTCAAAAACTAA
AGAAAAATCTCATATAAATTATAAATGATTCTGCAAAGTTTCACCTAACATTTTCTCCATACTTATGAAGCTTCTGAAG
TTATTTTACTTTTGAGAAGCCACAGACAGAAAAATTAATATAAATGAGATAAATTTCAACTAGCCTTGAGAATAAAGAG
AGCAAGGATAGTCATCAACACAATTAAGAATGRCCAAATCCTATTAATGTTTTCAAATTACCAAATTAGAAAAGTTAGG
AAGCATGAATAATTTATTTCTGACAACATATTCTTTTTAATATCTGCATTACTTTGGTCKGCTAAGGAGATAAACCTAC
TCATGTGACATACCATATGTAAACATTTTCCTAATTAATAACTGGAAAGCTTCTATGTGAAATACAAACTTTCTGCTCA
TACATAATGTAGACTACAGGCAGACAGTTAAGAGTTGGTCAAAGCTGTCAAAGCTTGTTTTATGGAAATCTCATCTTCT
TTTCCTGTGCTCTTTATCCTAGTCCAGGTCCTCTGAATTCTTTTACTCTACAGTACTTAGCTAATACAGTGTTTATCCT
CACATTCTATCATAGCTTTTATATTAACCACTCAGCAAAATATGTGTGCATGCACATACACGCACAACCATACCTATAT
TTAATCATCTAGTAAACTATATTAAATCTTCTGTAAACTTCAGATAAGCCTGTTTAAATTGGGGGTGGGTCGTATTGTA
GCATACCAAATGGTTCATATACCAAGTATATATTTGTCATACTATGTGGAACAGTATTATATTTAAAACTGAAGTCTTA
TTTCATGTAGGTTGTACCAAATTTGTGGTGGTAAACATTGTATTTAGGTCATTCACAAAGAGTACAGAAATACAGATTA
GCCATATTTTTCTATAGTGCCATTCAGTGTAATAGGTACACAATACATCTCATATTAAAGAAAAAAGAGTCTTTTCAAA
AGCCTGTAAGGGTCTGAATAAAGGTCTTAGAAATGTGTCATAACAGCTGAAATCTAAGAGATTTGGAAAAAGTGGAGA
AGTTAAATATTGCAAATGCATAGAGCTAAGACTTCTTCATTGAAAGTTGGGTAGTTCCAACATTCATGTGGAAAATCTT
TAAAAGTAGCCAAAAGGTAATTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGAGGCTGAGTCTTGCTCTGTTGCCCAG
GCTGGAGTGCAGTGGCATGATCTCGGCTCACTGCAAGCTCYGCCTCCCGGGTTCACGCCATTCTCTTGCCTCAGCCTCC
CGAGTAGCTGGGACTACAGGTGCCTGCCACCACGCCTGGCTAATTTTTTGTATTTTTAGTAGAGACAGGGTTTCATCGT
GTTAGCCAGGATGGTCTCAATCTCCTGACCTTGTGATTCACCCATCTCGGCCTCCCAAAGTGCTGGGATTACAGGCGTG
AGCCACCATGCCTGGCCCAAAAGCTAATTTTTTAAATTTTCCAGATAGAACTTCATGTGTATTTGATATATTCCATTTT
CGTGTATCCAATATTACCAAATCCATGGTATTTTTATTCTTTGTTTTAGATATTCTAATCATTTCACAGCACTTTCATT
ACACATCTGCCCAGATTTCCTGTTGCTAAATTTCAGACACTATTCTTTAAGTCTTGGAAGAGATCAACTTTTTCAGCAC
AACCCATCCCAAACAATGTAATGTTACTGTGCTATATTAAGACAACACATGTGCTGATCTTTTTCAGGCATTTCCAGAA
TTTTTATTGAATGTCAAGTATGTGCAAGGCAAAGTCCATCTAGCGATTTTAGGATTTCCAGGACCTGCCATTTATAAAC
TTCCTGGAAGAAAAATTAACCCCCTCAAAATGGGTGTTGACATCCAGTTTGCCTTTATAGCTCCTCTGATGCCTTTTAA
AAACTATATTTACCCATCTTATGTCAATAAAAAGGATGTATTTATTATAAGTTGTGGCAGATAGTGTTTTATAGACAAT
TTTATAGCCCACGTGTTAAAGGTAAAAGCAAAGAATTATGCTACTTTGCTGTATTTTCCCAGTGATTTATGTAAGTAT

Fig. 6.231

TTATTCCCTGTAGGAAAAAGTTGAAACACTATTGTTGACAACAGGGCCCAAATAGGTATCAGCTTGATGTACTTTATCA
CATATTATCTTTTTGTTTTTGCATCATCCCTAGGAGGTAAATATGTAACACTTTGGTTTCAT CATCACAACAGATT
ATTAGGCAAATCAACAGAATGAAATTAAAGTTATATTATCTAATTGAAAAAAGCCTTCACTTATATTTTCAAGCATTAG
TTCTTATCCACTTTCAATCACCTGGGGAACTTTAAAAAATCTGATGCCTGGGCCAGACACCCAGAAAAATGACATCAGA
CTTTCTGGGGACAGGACCCAGGTGACTGTATTTTTCTAAATGTCTTTCATGACTCCGCTGCTTTAGAGGTTCACAGACT
TCCACTTAAAGAACTGCTGGTTAAGAAATGCATCCCTACTTGCTCGGACTCCCAGGGATATCACTTTTCACCTGTTCCT
ATCATTTAGAAAAAAATGATTTGAATCAGCTAGATACATGATAGAGGACCCCCCCCCCACACACACACACACACCAATC
TAAGCACAAAATTATCTTGTTGTCCTCAATAGTTTGCATGGATAAGTAATGCAGAATAAGCATCATACCCAATATTAAT
AAATACTTAACAAGAAGCCCAAGATTTTACCTTGTTTCCTATTTTTTCCTTCAGCCATCACATTCAAACCTGGCCCAAA
GGTTTCTCACATTCTGGCCTCCATCACCACCACTACTGCTTTGGCCTGGCCTTTTGTCAAGCTAGAAATTGCCAGAATT
TCCTGACAACAGGCTCTGTAAGATTCAGTTTAGAGCTTACACTTTGGCTGGAGTTCATCTTCCTAAAAAGAGACTGTGA
TATGTAAATCCACAACCTGAAATCTCATTGGCTCTCCATTGCCTACCAATAACCCAAAATCCTCTACTCAGGAAGTCCT
GGATGGTGTAACTCCATTGCACACAGGTTCATCCCACAAGGCCTCTTGGTAATGGGGTACTTTCATGTGCATACTATTC
TGCTGCTCTTGTGGAAAGAGTCTTCAACCCCATTCTGTATACCCTGGACACTCACCTGAGACCCAGCTGAAACAGACCT
TGTCATCTCGGACCCTGCCCTTGGTTCTGTTGAAAGAATTAGCCACCAGATCCTTGAGGCTGTCTCAGGACTTTTGCTT
CACCTTTATTATAACAATTGGAATGCAGGCAAAATAGTGTTTCCAGTTACTAAAATAAAACTATAGACCATACAATATG
TTTGTTTTGTGCTTATTTAACTCGCAGGGGAAAATACCCATATTTTTAAGACTCTGGATTTAAAAAATCTGGTTGATTA
TATGAGAATATTGTTGGCTTGTCTGTTTGATTTTGCTTTTTTTGGGTTGCCAATAAAATTTTAGAGCAAGAAAATCAAT
CTCTGGAAAATATGTCTAAAATGCAAGAGAAAATTCCAAGAAAATAAGCTAGATTTCAATTAACATGTGAAAAGCATTT
CTTAATATATACAATGTTTATTTTACATGGATAATTTATGTAAGTTATTGAATAAATAATACTTTTAGGTTTGGGTTTT
AGGGGAGGTTTTAGGTTTGGGTTGCAGCAGAGGCTTTTTCAGCTGATTCAAATATCTAGTTTTCAAAATACTCTGCCCA
CATGATTTTTAGATATGACTTAGCCTTAATTGCTGACTCAGATTTTCACCTTTTAAAAAGCAATTGTGCTTTTTCATAT
ACACTATCAAACAAGATTATAAGATATTTTAAGGTAAGAAAGTAAAAGGGCATCCACTAATGATCATCAGAATCACCTG
GAAGGGCCAATAAGCCACACATTACCAGGCCCCTTCCCCAAAATTTCTAATTCTGTAGATCTGTGGTACAGCCTCCAAT
TTTTTGCTTCTAATAAGACCCCAAGTGACACTAATGCTGCTAGTCTGGAGACCACACTTTGAGAATCACTGCATTAAAT
TAACAATTTTATTGGTTGAGTTTTCACCACAGTGTGCATATCTGTTGACTAACAATGAATAGCTTTGTTGTCGCCAAAC
ACTGTAATGTTTCCAAATATCCATATGTAGTCACAGGCCCAGAGAAACAAACCACATCTATATTAAGACTGTTTTGTTG
TTGTTTGACCCCCCCACCCTTTAGTGTTTTAATTACATCAATCCTGGAGAAAAAATAACTGTTTTCTAATTTGGGCATTA
CAGATTTGCTAAGGCAATAGAAAATTCTATCTTAAACCTTTAGATTTTTAGTCTTCTAGTAAATATAAGCATATGAGTT
CCAAGCAAATTCTGAGTTTTAAAAAATTTAATAAAATTGACAAATGTTTTCAATAAAATTGGAGAGGCCCATTTCCTTG
TACAAATATTCTAAAAATAGATGATAAAAGTTCTAAGTGCCATTTTTTGAAAGATCAGCAAAATAATTCTACAAGTATT
TGTGGGCATGTTATCTTTTCTATGATACTGGTTATAAACTTAAGTTATATGAAGACAGTGTGTTAGTTAAATTATGTTC
TAGTCCTACCTTAAGGAAATAAAAACAATAAGGCTCTTAGGGCCTTTCTTCTGCACCACTGCAGTACTTGCTAACATGT
TTTAATAACATGTAGCTGAGAATGATAAACTCTAGGCAGCAGGGTGGCTTGGAGATACTAATGGAAATGCCCAGTCAAA
AAGAGCCTGGACTAGACTGAGGTCTGAAGACTCCAAATAACTTTCTGTTATCCCACCATCTTCTCAGATGGTCCAATCA
TGCTACACTCAGTCTAGGGCAATGACCCTGAGGAATGGTATGTTTGGCAAAAAAGAAACCAAAGAAGGCTACTGCCATG
CTTTAAGATTTTCCCATATATCTTTTTCAGCATCTTGAATGGGGTTTCTGAAAGTCTGAGGAGTGAACTGTGACCAAAA
TGGCTGATATTTTGAGCTCAAAGAAACTTAAATTTTTAGGTAAGGATACTAAGACCGACTTAAAAAGTATAGTATCAAT
AATTTACATTTCTTTAGCTAAGAATTTTCAGACCACTTCAGTGCAGATCACATTGACTGATTCTCTAAACCACTCTATG
AAGTGGGCAAAGTGATGGTCTCATTTTTCAAATGAGGACTAAGGTTTATTTAATTCAAGTGATTAACTCTTCAAACATC
TAGTAGAGGCTAGCCAGATGCATTGGCTCACATCTGTAATCTCAACACTTTGGGAGGCTGAGGCAGGCAGATCCCCTGA
GGTCAGGAGTTCAAGACCAGCCTGGCCAACATGGTGAAAACCCATCTCTACTAAAAATACAGAAATTAGCTGGGCATGG
TGGTGGCAGGTGCCTGTAATCCCAGCTACTCAGGAGGCTGAGGCAGGAGAATGGCTTGAACCCAGGAGGCAGAGGTTAC
AGTGTGCTGAGATAACGCCACGGCACTCTAGCCTGGGTGAGAGTGATATTCCATCTCAAAAATCAAAACAAAAAAATCT
AGTAAGGGTCTATGTCTAGCGCCTGCACTTCAAATATGTGTTTGTCATGACATCATTAGCCCAATCCAATTTTCTTTCA
TTAATTTTCTGAAATAAATATTTTTTGAGTTTATACTATATACCAGGTGCTGCTGTAAGTGCTAGGAATATAACAGTGA
ATCAAACAAATAAAAATCTGTGACCTTTTGGAGCTTACATTCCAATGAATATAGGCAAAATAATAGCCCCTGCAAAGAG
CTCCACTGCCTAATCCCTGGACTAAATGAACATTACCTCACATGCAAAAAAAGATTTTGCAGATTTGATTAGGGGCACA
GACCTTGAGATGTAGTGTCCGTATTAGCCCAGTGGCCCAATCTAATCACACAAGTCCTTCTAAGCAAAGACTTTTCCC
TGGTTAGGTTAGAGAGAGATGTGATAACAGAAAAAGGGTCAGACAGATGCAACTTTGTTGGCTTTGGAAATGAAAGAAG
GGGGCCTGGAGCCAAGGAATGTGGACAGCTAGAAAGGGCAAGGAAGCAGATTCTCCCTTAGCCCACTCAGAAAGGAATG
CAACCCTGAAGACACCTTGATTTTAGCCCATTGAGGCCTGTGTTGGACTTCTGACCTACAGAACTATAAAATGATACAT
TTTAATTGTTAAATCACTAAGTTTCTGATAATTTGTTACACCAGCAGCAGAAAACTACAGAAAAGATAGACAATATTCA
AGAAAAATAAGTAAAAAATATATGTTGGATAGTGATAAGTGCTAAGGAAAAAAGTCAGGGAATGACATAGGAAGTTATC
AGTAGGGATGCAATTTTGAATAGGGTAGCCCTCCAGGTTAACATTTGCATAGACTCAAAGGAGATGAAGGGCAAGAACA
TTTCAGATGAAGGAAACAGGAGGCTAAAAGCTGAGACTAGGACAATGATCAGCCTGACTAGATTCTGAATATCACCATT
AAAAGAGCAGTTTCTACTTCAGAATATATGTACAAGCTTCACCTGGGAACCATGTGTGATGATTTAGGATGAAGTTTCA
AAACTCCACAGATGACATTCTTATTTTTCTATAAGCAAACAGTCTTGCCCAAATAACATCATTTACTTTTTCATGTTTG
CTGGAGAGTTCATTAAGAAATTCAATACACCGTATTCAAAGAAGATGAATTCTTACAATCACTTAGAATTTGGTCTAAG
GCAAACAATTGAGGATGTTCAGACTGAGTCTTTTTGGACCATCTACTCAACATCATTATCAACCAACAGCTTATACCCC

Fig. 6.232

TTCAAAGGGATCTCAAATTATATTTGATCCTGAGTTGTTGCTATAATAAATTTAGAGCTGGAGAAAAATAGTCATTGTA
ATTATTTTGTTATTAGAGACCGGCTTACATATGCTAAATAAATAAAAACAAAATGAGAGTTAATTCTATGTGAAATTCA
CCATCAATTTTGATGAAATTTCCTATTGATACTTCCAAGTACAGTAGGCCTTTCGTATCCATGGGTTCCACATCTGTGT
ATTCAATCCAATTTTTTTTTTAATAATATGGTTGTGTATATACTGAACATGTACAGACTTTTCTTGTCATTCCCTAAA
CAGTACAGCATAATAACTATTGACATAACATTTACATTGTATTAGGTATAAGTAATCTGGAGATGCTTTAAAGTATATT
GATGTGTGTAGGTTATATACAAATACTATGTCATTTTATATAAGGAACTTGAGCATCCATGGATTTTGGTATCTGCCTG
AAGACCTGGAACCAATCCCCAAAGATCCTGAGGGACCACTGTAATCTAATTGAGGCCAAGTTCATGGGTTTGTATCCT
CTTAAGTACCTGGGGGAAAAAACTGTCTGATTTTTTTTTAAGTTTTAGTATACCATATATTTTAATTTTCAAAGAAAGG
AAAACAGAAATTTTATGATCTGTGTCAATAGAAGTGTTAATATATAAAGCAAAGAAATGCCTAGGTGAATATTGGCCTA
GTAATAAACATTCTGCAATGGTGCTTCATGGGAAATACGCCTTACCTTGCTACTCAAAATGTGATCCATGAACCAGCAG
TATGAATATCACCTGGACTTGGTAGAAATTCTTGGACCCCACCCTGACCTAGTGGGTAACCATCTGCATTGCAGTAAGA
TCCCAGGTGATTCATATGTGTTTTCAATGTGAGAAGCACAGCACTGGGGCCTTACCCGGGGCCCTCCTTAGGAAACACA
CCAAGTATTGCATGTTTTTTACATCCTGACAGGTCCATATGAACTCACATTTTTCCGAATACAGTGCACTAGCATATCT
ATCATATTTTGAAAAGCTATTTTCATCAAGGGAGCTTAGTATCTGGTGCTCACGAGATACCTACAGAGAAGTAGACAGT
GTTATGCTTTTGAGAATTTATCAAACCTTTTGGTCATATAATGTTTTTATTTCAAAACCTTAAATTGGTCAACATATTT
TTAAATATTTAATAGTTGAGGGATGAAGAGGATAGAAGTTTAATTAGTTCAAAGGAAGGTAAATTGGGAAGGAAACAAA
CTTTTTTGTTGAATCAGAATTTTCAGGATGAAAAAAGACACCAGTGCCCTGTGGTTCAGTGCTAACACAGCTATGATGT
GACTCTTCAAAGGTCAATGCTTGTGCCCCTATTGCTGCACATCCTTCTCCTTGTCAGTGTTGATGTGTCATTGGCTGGC
TCTGTGTCATTGGCTTGGTCTTGCTTTCACTGAACTTTGGCCTCCGTGAAACTTCTAAGTAGCATTGCTCCTACCTGTG
AATCTTGGAAACACACAGGGCAAGTGAAATTCCATTTTCTTCCTTTCTTTCTTTTTTTAATGATTAATAGACAATTTAT
TTAAGCAAGATCCTTATAGTCATCRTTGCCAGACTTAATATGAGATGTTAAATGTTCCATCCAATTTTCCTTCCTGGAT
AAGTTTTTCTTTCCTATCCCTGTCAGTTTTGAAAACATAATACCAGAAGAAGAGGGGCCCAATTCCACACAGAGCTCCC
AAGAGTGAGTTTTAGGAGTGAGTCTGAAATTAGAATAGACATTTGCTGATCTTGCATAGGTCCAACGAATTAAGGCAAG
ATCTTCGATGAGCCCTTGGTGGTTAGAGTTGGTTGTTGTACTGAAGCAGGTACTCTTGTTTCAGCTGGGCTCTTATGGC
CAACCGTTCAGCTTGCATCTGCCAGCCTTCCAGAGATATGTCATATTTGGCTGAGTCGAGGGTCAAGGGCAGAGTGGCC
AGGTGCGATGGAGTAAACTTTGGGAATGACATTTTGGTGACCCAGCACACAACTGCCTGAAATTCCATTTTCATGTGAC
ACTTTTGTATCTGTAACCATCAGGTCTGTTCCCTATGTTTTCTATTCCTTAACTTGGCTACCATTATACCATCACATCT
CTTTCCTTTTCTAGTGACTCCCCATTAGACTAGCTCCTATCTCATAACCTCCTTTTGTAATTTAATGGCCCAAAGATTA
GCAAATTCCAGAAATTCCTAAAGTAATCCAATTAGCTCAGAACATCATAGAGACTTTTTTTTTCTTTGCCTCATCCTG
GGGTTATTTATCAATGAAAGTGACTTTAGATTAGATAGACACTGGCTGCCACATCGTATCGTTGTGACATCCTGCACTT
AACTAAAAGGGCTTGACTTAGGCACCATCTCCTTCTCTCTTGGCAGCTGCTCAGTTAGATGTTTTTGTTTTAACCAAAG
GGCAGGACTTCAAATGTGACCCTATTTAACTCCATCTGGTTATATTTTGACCTTATGCTCTTTTTATATCCTGATTCTG
TCATCCATTCTCTTAGCTGTCCTTCCCAGCTTGATGTAATAGTATTTTCCCAAACTACACCCTTTTCCATAATAAAGAT
TGTCACTCCTCCCTCAAGCTTCCTTAAGCAAGCTTTATCATATGTCTGATAGGATCTCTGTTTCTGATTGTACTCAGTA
TAGATTTGTTTCCTGGCACACATGTATGCACTATGTCACTTAATCACAGTGCCCCTATTAGATTACAAACTCCTGTCAC
CAAGGGTTTTGTTCCCTCTTTTCAAAGCAGAACTTAAAAGAATTTTGCTTACCTTTAAGCGTGCAGTTCACATCATTGA
CTTTAACTGGATGGTGGTTGATGGCTGATGGTCAACTAACAAAAAAGGAGTTGAGGAGTTGAGGTTTCAGATATAACAG
AAGGATACTTAAGACTTTTAAGGAATAAAAAACTAATTTTTCTTAGCACAATGGTTCAGATGAAAGTAAGGGTGCATCA
GAGAAGGCTGTCATTGGTTTATTTGTTATATTCCTAGCTCATGGTGATTGTATGTTAGCCAAATATCTTGCATTTGATT
TTAAAACAAATCAGAAGTAGATGACTCAGAAATGTTGACAATAAAATTATGGACAAGCCCCTTGCTACAGCAGCTCTTA
TTAATTAAATATCTGAGACAGCAGAATTAAAAGAGAAGAAAGTGATATACAATTTGGAAGGTTTGGAAAGCTGGCCATA
AAATTATTTCTTTCAGCTGGAGATACCTTACCTACTTATAATATATAAAATTTTTGAAGAAATAAGAATAGGTCTTATT
TTACTTTGCAGTGAAGGCTTGAAATATTTGAAAGTTCACTTTATTGCAATAGGATTAAGTACATCAAACTTCATCCATT
CTTATCTCTCTCAAATATTAGGAGTATAACTTTCAACTGAACTTCTTTGCCTGCTGTAATATACTGTTCTATAGTGATA
TTTTAAAATGAATACTTTGTGAACATAGTACTAGAAAAAGGATAGTGTTTTGAATATTTTAATAGCCTTACAGGGTTAA
AAAAGGATCTTATAAAAAGTATGTTTAGTACCATTCAATTTTTACAAATTTATGCATTTGCTTATTCATATATGTAAAT
TTAAAATTTACATATAAGCTTATACTCAGAAAAAGATAAATGTTGTAAACACACTTGCATGCACACACACACCATAACA
ACCACCATGCCATTCAGTGGTTATTTCAGGGTAAGTAGGATTGCAGAAACTTTTACATATTCACGTTTTGCCTATATTT
TCTGTTATAAGCTTTTATTTTGGCATGAGAAGAAAAAAATTTTAAAATTTCCCAAAAACATTCTTTGTAATAGTCAAAA
ATTAAAATGAACAGTGTCTATCAATAGGAGAATGGCTACACCAACAAAAAAAGTCAAGTAAGAAATAAAATTGGCCAGG
CCTGGTGGCTCATGCCTGTAATCCCAGCACTTTGGGAGGCCAAGGCTGGTGGATTGCTTGAGCCCAGGAGTTTGAGACC
AGCCTGGGCAATATGGCAAAACACCATATGTACAAAAAATACAAAAAAAATAGCCAAGCATGGTGGCATGCACATGTAG
TCCTAGCTACTAGGGTGGCTGAGGTGGGAGGATTGCTTGAGCCTGAGAGGCAGAGGTTGCTGTGAGCCGAGATCACGCC
ACTGCATTCTAGCCAGGGAGATAGAACAAGACCCTGTCTCAAAAAAATAAAATTAAGCAATGGGAAAAGATTCCTCTTG
CTATTTTAAATGTTGATCAACATTCAAATTTTCAGTGGTTTTAGGTAACAAGACATGTCAACCTCCTGAAACAGTAATT
GTTGTAGATAATAAGAATATATATGAGTTTGGCTTTACCTGATTTTAAAAGTGGAGAGAAAAGCTGAATTGAAGCAAGC
ATACAATTATTTTCTAAACATATCCTCTCCAGTTTCAGTGTTTTTAATCAAACCACCAGGAATGGTGCAGCAGACAAT
GCCAGTCCATGTCTCCCCCTTCATGGTCCCTTAGTTGTCATTAATGGGTGACTGCAGAGAACCATAGGCATTTGAGGAC
TTAACAGAGATATGTTTTATATTGAGAGTGGACATAAGCTCCTCATTGCCTCATTGTGGTTTGCACTTCAAACTGCAGC
GTGTACTTTTTCTAAGCTCTGTGGTCTGCCTTCCTAGGACTGCTTGCCCTGTACTGTTATTTCAGAATGTTTATCTAGT

Fig. 6.233

GAGGAGTGCTGCATTGCTCCATTGTGCATCACAGGGCACAGGAAGCAATGGTATGACATTTTGCTGCACATCTATTTT
TGATTATTCTCAAAAGATGAAAATGTTTATCACTGCAGGGGTGTATTAGTCCATTTTCATGCTGCTATAAAGAACTACT
TGAGATATGGTAATTTATAAAGGAAACAGGTTTCATTGACTCACAGTTCTGCATGACTGGAAAGGCTTCAGGAAACTTA
AAATCATGGTGGAATGGGAAACAAACACGTTCTTATTCACATGGCGGCAGGGGAGGGAAGTGCAGAGGAAAGGGGGAAA
AAGCCCCTTATAGAACTATCAGATCTCCTGAGAAGTCACTCACTATCATGAGAACAGCAGGGGGATCTGCTCCCATGAT
CTAATCACCTCCCATGAGGTTCCCTCCCCCAAAACATGGGGATTACAATTTGGATTACAATTCGAGATTTGGGTGAGGA
CACAGAGCCAGACCATATCATTCCACCTTTTGCCCTCCAAAATCTCATCTTTCTCACATTTCAAAACACAATTATGCCT
TCCCAAGAGTCTCCCAAAGTCTTGACTCATTTCAGCGTTAACTCAATAGTCCAAGTCCAAAGTCTCGACTGAGACAAGG
CAAGTCCCTTCTGTCTATGAGCCTGTAAAAGCAAAAGCAAGTTAATTACTTCCTAGATACAGTGGAGGCACAGGTATTG
GGTAAATACACTCATTCCAAATGGGAGAAATTGTCCAGAACAAAGGGGCAACAGGCCCCATGCAAGTCCAAAATCCAAT
AGGGCAGTCATTAAACATTAAAGTTCCAAAATGATCTCCTTTGACTCCATGTCTTACATCCAGTTCATGCTGTTGCAAG
AGTTGGGTCCCCACCACTTTGGCAGCTCCACCCCTGTGGTTTTTCAGGGTACAGTCCCCTCCTGGCTGCTTTCATGGGC
TGGCATTGAGTGTCTGCAGCTTTTCCAGGTGCGCAGTGCAAGCTGTTGGTGGAGCTACCATTCTGGGGTCTGGAGGATG
GTTGCCCTCTTCTCACAGCTCCACTATGCAGTGCCCCAGTGGGAATTCTGTGTGGGAGCTTGCACCCCACATTTTCCTA
CTGCACTGCCCCAGCAGAGGTTCTCCACGAGGGCCCCGTCCCTGCAGCAGGCTCTTGCCTGGACATCCAGGCATTTCCA
TACATCCTCTGAAATCTAGGTGGAGGTTCCCAAACCTCAGTTCTTGACTTCTGTGCACCTGCAGGCCCAACACCACGTG
TAAGCTGCTAAGCCTTGAGGCTTGGACCTTCTGAAGCAATGGCCTGAGCTGTATGTTGGCCCCTTTTAGCCATGGTTGG
GACTGAAGCAGCTGGGATGCAGGGTTGCACAGAGCAGGGGGACCCTAGGCCCACCCCACAAAATAAAGTCTTTCCTCCT
AGGCCTCCAGGCCTGTAATAGGAGGGGCTGCTGTGAAGTCGTCTAACAGGCTCTAGAGACATTTTCCTCATTGTCTTGG
TGATTAACATTTGGCATCTCATTACTTATGCAAATTTCTGCAGCTGGCTGGAATTTTCCCCCAGAAAATGGGTTTTTCT
TTGCTATTACATCATCAGGCTGCAAATTTCTCAAACTTTTATGGTGTGCTTCCTTTTGAATTTTCTTCCACCAGATACT
CTAAATCATCTCTCTAATTCACAGTTCCACAGATCTCTACGGCAGGGACAAAATGCCACCAGCCTCTTTGCTAAAGCAT
AGCAAGAGTGACCTTTACTCCAGTTTCTAACAAGTTCCTCATCTCCATCTCAGACCAACTCAGCCTGGACGTCATTGTT
CGTATCACTATAAGCATTTTGGTCAAAGCCATTCAACAAGTTTCTCAGACGTCCCAAACTTTCCCACATCTTTCTGTCT
TCTGAGCCCTCCAAGTCTCTAGGAAGTTGCACATTTTCCCACATTTTCCTGTCTTCTTCTGAGGCCTCCAAACTGTTCC
AACCTCTGCCTGTTACCCAGTTCCAAAGTCGCTTCCACATTTTCAGGTATCTGCAGTAGTGCCACACTACTCTCAGTAC
CAACTGACTGTACTAATCTGTTCTCACACTGCTATAAAGAACTGCCTGAGACTGGGTAATTTGTAAAGGAAACGGGTTT
AATTGACTTACAGTTCCACATGACTGGGGAGGCTTCAGGAAACTTACAAACATGGTGGAAGGGGAAGCAAACATGTTCT
TCTTCACATGGCAGCAGGAGAGAGAAGTGCAGAGTGGAGGGGAAAAAGCCCCTTATAAAACCATTAGAGCTCCAGAGAA
GTCACTCACTATTATTAGAACAGCATGGGGGAATCTGTTCCATGATCTAATCACCTCCCATGAGGACTTTCCCCCAAAA
CGTGGGGATTACAATTTGCATTACAATTCAAGTTGAGATTTGGTTGAGGACACAGAACCAGACCATATCAAAGAGTTTG
CTTTGACAAAAGGAAGTGTATCTTTTTATTTACTTATTTACAAAGCAGCTTATTAAAGTTATTAAATAGTTTTCAAAGG
GGCAGCTTTTTTTTCTACTTTCTGTATTAGTAAGCAACCATCTATGATTGTAATACAACTGAGGTCTCCCAAGAGAGAA
TGTAGCACAAAACAAGGTGTGCTATCTAAACCTGTAAGAAATGTTGTGCAGTGAACCAACTCCAGCACAGATATGGAGC
TCTCTCAGAAACAACATAGGAAATTTAGATATGTGAAATTCAAATAGAAATAGAAAACTCAATTTAGAGTTTAGTTTGC
GTAATATCTTAGAAATGTTTTCATGGTTCAAAGCTGATATTTGACAATTGTGTTAGATCTATAAAAATTCACAAAACAT
CCCTATAATTTTCAGATACAAAATGCTAATAAGGATTTTAAAGTTCAATGTGGACCACAGGGCTTCTGCTTTTGCAGGT
GTACCTTCATTTACATCCTTTCAGTTGAGGAAGGGTGGGTGTTTGAGAGCAAAATGTATGTATAAGGTAAGAAGAAAAG
AGAAATGAGAGAGAGAAGCAGAAGATAGTGAGCCATCAATAATGATATTAGTTGGCATTCATTTCAAAAGCCAACCACC
CCAATTTAGAGGATTTGCATTTAGGACTAATTAAATTATAAGCTAATTGAGCAGGGACTGAGTTAAGCCTACTGATAGT
GCTTCATAAATATTCATATTAACAATAATACAAGATGTTCCTTTTCAAGGCTAAAAACTTTTTCTAAATGGTGTATACA
ACTTGTGAGTCTTGGTAAGTCAATGTTGTTGCATTCCTGAATTTTTCTATCCCTTTTAAGGATAATTCTAACTCAAGTG
AACCGAAATTTTCCCTGTAGCAGTAGAGGTCCTCTGAAAATTGAGGAAGCTCTCCATGTGTAATGCTCTGAAAATGGCA
GACATTTCAGAGTCACATTCTGTATATCATTCATGTGAAATGGCATAGGCAATTTTACTCCTCAAGATTCTTTGCCCAG
AATTCGCAATTTAATAAGAACAAGTATTATGAATTGTTGAAGATTCTTCCAGCTCTCTTGGAAATAAAGGGTCTTCTCA
AATTGTAGCTTTGGTACATTAATAGTTACTCTGGGGGCCTAAATGAGTTAGTTAATGTGCAGCTTAAACATCTGAGGCA
CACCCAGAAGTAACTCAGGACTGAGGAATTCACCTTCCCTTGCTACTCAATTGCCGTTTGTGTAAAATAGTGGACAGTG
ACACTGTTTGTGTGCAGCTAGCAACTGTCTCTAAGTCTTGGGTTTGTTGGAGCATAAAGTGCACTCCAGTGCCCTGAGT
ATACCTGTAAGGGTATTTACCATGATTCATAAGACTTGTTTTAAAATTCCTCTCCAAATAAACACCCTCTTAAATTTAA
TTTTCCTCATATTTCTATGTGGTTATTTATAGTTCAAGAACAAGTATTTAAAATATTTAAATGATAGCCATTCAATTAA
CTATTCCAAATTTTAGTTTTTTTCACCAAGGAGCTGAGCTGATTATCAAATATGCTTTATGTGAACTCTGTTTTGTTTA
AAGTGTACTGTATTTTTTAAATTTGTGAACATGGGAAATTATACAATGTTCTATAATAATTTCAAACCTGAGTTTTTTT
TAAATCTCAATGAAAGCTGTACCTTATCTGAAATGTAAATTAGTGTAAAAACCCTTTCATTCTCAATAATTGTCGGCTA
CTATCTTTTTATCTTCATGTTCATCAATAGTAAACATTCAACCTTCAACGGTTAACAAATATTAAGTGTTTACCATGTA
CCAGACACTTTTCTACATTCTGGGGTGACAGATCTAGAATTACAAGTGTATCAAATATTATAACAGACAGGTGGAAGGT
GCTACAGGATCAAATAAGAAGAGGACATAAACTTAACTGTAGAGATGGGTTGGGGAGGGAGGAAGAAGTTAGTGTTAGA
ACAGGCAACTTTTAAAGAATTAACCAGGAAGTTATGCAATTTGGGGTAAAGTGGGGAAAGAGTGTCAGGGAAATGAGGT
TGAAACAGATAATATAAGATTTGCTATTTATTCAAAAATAGTTTAGAGGCCAGTAATTGGCTGGGAGAAGAATGGTGCA
CAGATGGGCAAGTGTTGACCTGCAAGGCCAATTAGAAAGCTGTGTCTATAAGTAAAGGCAAGAGATGAGGATGACCTGG
ATTAGGAAACAAAAAAATCCTCTCTTTTACCTGCAAAAATAGCTGTTGACTTTGTCTCCCTTCCATACAAGACTTGGGG

Fig. 6.234

TCTCCACGTTTCCAGCAAGAGACTGGGCAGTTATACATCTGTTTTTATTTTTACTCTGACCTGACTGCTTTATGCAAGA
TGGGCCAAGTCTCCCTTATACATCAGGAATGCACTGATGTAAAGACAAGATATCTGCTCCTCCAGCCACCTTTCTTCCA
GGTCTATCTGCCTTAATTCCTCTTCCCCCATTCTCAGTGGTGCATCATTCTCTACTGCTGTCCTAGTCCTGCCTCAGTT
TTCCATTAGTTTTATTTTGCAGCAGAGATTTTTTTTTTTTTTAGTGATCTCCTATTGTTCCTTAATCACCCTTGAAATA
TACCTAATTAACCCAAGTAAACCTTCATGATGCATGTCTCTTCATCCTAGGAGTATAAATGATCCTTGTATATCTATAG
GAACGTTTCTATTCCAGTCTTTGAAATTGAGGAATTTCATATACATTATATATATATACACACATACAGACACACACAC
ACAACGTGTATATATGTGTATATATGTGTATATATGTATATGTGTGTGTGTATGTGTGCATATACATATTCCATTAGTT
ATGAACAGCTCTTTTTTATCTCTTAAAAGCAGCAAAATAAAATATTGACATTATTCAGTGAATTGATAGTTGAAATGTA
AGGATTTCAGAATGAAAGTTATGTAGTAAATCCTAGCCCTTTCCGAATCCTGATTTCCTAAATCTAACCTATATGGAAT
TTCTTTTTTTTTAATAAAGGTTCCATGAAACTTGGCCTCTTTCCTATCATCTTAAATCGTTCTCCTCTTATACTTCTC
TTAGTTCTACTTCTTTCACGTGAAATCCATTCTAATGTGAACCTCGGTTTCTCTGAGAGGTGCCTCACCACAATGCCCA
TGCCTTTCTGCACTTCCCACGTAGATCTTCTTGCCCCAAATACCTACTGTGAGCCTTCTTTCCTCTGTGCCTTTCATTA
TTCCACTCATCTGAAATTCAGTCGCACCAACTTTTTAAGCACCTTTATCAGGCACTGTGGTCAGTAAGGTTTACAGATG
AATAAGGCATGATTGCCAGTCACTGACAACAAATTTGGGGCAGGGAGAACAGCCCCATCCCCATAAATGGTCTCATGTT
TCTTTTGTTTGTTTGTTTGTTTTGATAGAATCTCACTCTGTTGCCCAGGCTGGAGTGCAGTGGTGTGATCTTGGCTCAC
CATAACCTCTGCCTCCCAGGTTCAAGCAATTCTCCTGCCTTAGCCTTCGAAGTAGCTGGGACTACAGGTGCTGGCCACC
ACACCCAGCTAATTTTTTTGTATTATGAGTAGAGATGAGGTTTACCATGTTGGCCAGGCTGGTCTCAAACTCCTGACCT
CAAGTGATCCCCCCACCTCAGCCTCCAAAAAAGCTGGGATTACAGGTGTGAGGTACCGTGTCCTGCCCATAAACAGCCT
CATTTATAAACCATAAATACATAAGTGCTGAGATAGAGATTTGTGTGTGTGTGTGTATTTGGGGGGTGGTGGATACA
CTTTGCCCAACAAATCCAATATTGTTTACTACTTCCTGTGCTTCCCACATGACTGTTCTCTCATCTTTCTCTTAAATTA
ATGGAAATACCCTCCTAACCAGTTTTCCGACTGGTGCTTTTGCCCATCCAGTCTAATCTCATAGCAGAGTTATTCTACA
AAAACAGTAATTAGTTCACATCGTGTTGCTCTCTGCTCAAAGCCATCCAATGGCATGCCATCTAGAGTCAAAGTCAAAT
TCTTGCTATGTCTGTTAAACTTCTACATGATCTATGTCTACCGCCCCTTTCAAGTGACCTGGATCTGACATCTTCTCAA
ACCACTGTCCGCCTCACCCACTCACTTCTCCACTCTGACTTCACTGGTGTTCCCTGAATGTGCCAAGCATGTTCTGCAT
CACAGCCTTTGCACTACCTGTTCCCAGTGCTGGGAATTCTCTTCCTCTAAGTATCTGGATGGCTGGTTCCATCCTGCCC
TTCAGATCATCGCTCATATGTTACTTTAGCAGTAATCCTTTCCTATTCATGCTTTTTCTTCCACCTTGACGTTCCCTGC
TGTATTTTTATTCATAGCACCTATGACCTACTGTATCCTTTGTTATCTGTTTATTGACTGCTTTCATCCAACAAGAATG
TAAGCTCTATAAGGGCAAGGGCTTTTTTCTGTTTTTTCACTGTTGTATCCTCTGTGCCTAGAATGGTACCTGTCACATA
ATAGGTGCTCAATGAATATTTGCTAAAGGATGGAAGGAAGAAGGGAAGAGGAGGAAGGAGGGAGAGAGAGAAAGAGGAA
AGTTGAAAGAAGAAAGGAAGGGAAGAAAGATGGTAGGGAAGAAGGAAGGACAGCAGAAAGTCTCATGTTGGCTTTACTA
AGTCTCTAACACTTATTAACACCTGCTTTGTCTTATAAACAGAGATAACACCGGCCTGTAGCCTAGTGCCTTTCGAAGG
CAACATTATCTGGATAGAAACTAATAAGGTTGTTCTGTTTATGCTGCATTTATGGCAAGAGTTACTGACTTTCCATTTA
TAGTTGTGATATAAAGTTTCTTCTTTAAATGAAGACATTTTATTTCAGTTTTTAAAAAACTAGTCTATTACAGAATTTT
TAAAATTAATAATAGTATATAGGGGATGCAGAAACAACAAAAATCATGATGTAGAAATGTGGATATGGCAGAATCATGA
AGCTGGTAGTCGAATGCCTGAATTGGGGATAAGTGACCCCTTCAGCCATGAAACATTCCCTGACTATTGCCATCTTCCC
CTCTTTCATTCCTGTTGTTTATTCGACTCCTGTACACTATCATGGGTTGAACTGAAACCATTTGGTATTGCTCACTGTT
GTTTTGGGTGTTTTAGTTCTATCTTCCTAAATTGATATAAGATCCTTGATGTGAGTGCTCATGTCCTGCCCCCCTCCTC
CTGGGCAGCCACCATAGTGCACAGCCCAGCACTGACAAAACAGAACATTAAGGATGTTTGCTTGTTGTATTCATCATGA
CTCAGCTACACAATAAGACATGAGGTTAAATAGTGTGCAGACAGTAAAAATACTCGAGCGTGCTTTATTTTTTTTTTTA
GCAAAAGAAATACAATAGCAAACATCATTTTGCCTTGCAAACTGGCAAAATGAAATCACTATTTTTGCCACTGGTGTAA
ATTTTATACACACACACACACACACACACACACACAAACACACAAGTACATACATATATACTTATTCAATCTGGTAGGA
TAAATTAATCACTAGGACAAAACCATGAGTTAATAGGAGCCAAATTCCAGCACATCCAATTGGAATGCTTGAGAATTAA
ACCTGCTAAAAATACTGACTGGAATAGGAAGACATTCATAAAACGATTAGGCACATTTTAGTGGAAGTCAGCAACAACA
AATAATTAATTGATTTAACTAATAAATTTAGATATTTAAATTGTCAAGGAATTCTTTGTTCTTCTGTTTTATAAATGGT
ATTAGCATTATCTTTTTTACTGGAAACTTTAAAGGTGTAAAATACTGTCAAGAGCAAAAGCAACTTAGATTGCCTGTAA
TGACCATTACATTGACACCATTTTTTGCAGTATGATTTGCTATTAAATGTGAATAACGTGAAGAACAATAACACTCCTA
GATCACCTGCTATGAACCAGGCACTGCTCTAAATAGCTCAGGTATTTTAACTCATGTAACTGCTACAACCCTATGAAAT
ATATCCTCCTTTCAGCTTCATTTTACTAGTGAGGAAACCAAAGCTCAATGAGGCTCTGTTAAGTTACCCCAGGTCACAC
AGCTAGTAAGTGTCTGAGCTGGGTGTTAGTGCACAGTGATCTAGCACCCAAGTCCATATACTTAAACACTACCTTTGAA
TGCTGCTCTGTACCCTATATAAGGAAGCTGTGGCCCAAATAGGCAAACCTGTGACAAACGAATCCTAGAGTCTAAAACA
AAGGTTGAAAGGTGACTGTAAAAGTAGGCATTTGATCTTTAAAAACCAGGTGAATTTGACCTGCCATTCTTGACGGCAT
TAGTAAACATTACATTTCTTATAATTTACATTAAAAATCTAATACTTCGTTTACAAAAAAAGACTTTCAAAGAATATGC
ATGCATTTTATGCAAGGTTAAAGAAGTTTTCAGTGCTGGCTAGTGAAATGGGGGTTAGATGCCCTGTCTATACTACATG
TTTAATCAATGTAATCTTAAAATGAGATGACCTTGTAGCCAAGCATTTTTTCTTTCCTTTATAAGCAATATTAACTATA
TTAAATCAAGAAAGCTAATAGTTTTTCGTATTTCTCAATAACCATTAAGTTCAAACATTGGAAGAGTTTAATATTTTAC
ATGAAAAATCCACAGGCAATAATTTTAAGTGACTTAGAAAATATTTACCGTATTTTAACCTTAAATGACTGTGTATGTG
TGTGTGTGTGCCTATGTGTGTGCCTATGTATGTGTATGTATGTTTATAATCTAGTAGTTCTCAAGGAGTATTGGAGAAA
GAATATGTGATCACATGTAGTTTATAAAAGCTCTCGTGTTTTTTGAAAGACAAATTTTTTGTCAATCTAGTGGTAACAT
GATACTAATTTTTTAATTAATTTTAATTTCCCTGATAATACATTTAAGCCTTAAAAATATTGTTAGTGATTCATGTTTC
TTTTTCTATAAAAATTATTTCTAAGCCTTCCTCAAATTTCTTCCAGACTCTTTTTTCTGATTGATTTTTAAGAATTTTA

Fig. 6.235

AAAATATTCTGCAATTTCTCTTGATCACAACAAGTGTTGGAAATATCTTCTCCCGAAGAAAAGAATGATTCTTAAAAAA
ATACTTTAGTAGCAGTTTTTTTCTATGAAAAAATT AAGTAGCTTTTTCTTGGCAGCGTTTTCTTCTAGAGCAATAGG
GAGGAAAACAGAAAGCTGTAGACTGTTATCTTCGTCCATACATATGTTAGTGCTGGAACTCAACTCCAAAAACTTTGTT
CCTTTGAAAATCATATCCCTCCAGAATTGGTGGAGTGGTGATGGTGTGGTGTTGAAGGCCTATTGCCAGGACTGAGAAG
GAAAAGCTAAAGAAAGAGGGAAAAAAAAATCCAGAGAAAGTGACTGCCTGGGGAGGAGGGATAGGCAAGAGACCAAACAT
CGATTCTAAAGGGAATCTTGCAAATGCTCTGGCAAGTCTATGTATGGGAACATCATTTGCCTAGAAGATGCTCCCCTTT
ACTCCCTTTTTCCCTATTGGGCTGGTTTAGAGGTCAATAAACTTAATTATTTTACATCTAGTAATGTCCCAGATGATAT
AAAATGTCATTGTTTTCATTCTATCATATAGTTCATGAATCACAGTTAAAATAATGTTTCCCTTCTAAAAATTTTTCAA
GTTTTTTATTTCACCGTAAAGTTCTTTTACATATGGAATTGAATTCTGTGTGCAGTGTGAGAAGAAATCCACTTTTGTA
TGTTTCCCATATGGCTAACTAGTTATTTCCACACCATCGATTGACTGATCCATCATTTTTCCACTGACTGGTAGTGTTA
CCTTTGACACGCATCAGTACAGTTGGTCTGCTTTACCTTTCTAGCTATAATTGTGGCGTATCCCTCTATTAATTGCCTC
CTTTAGTGTTATTCAGTGCATTTTATACATTTTGTTACGAAGATCTTATACATTTTTTATTCACATCCACTGTAGACTT
CTGTTGCTATTACAAAATGGCAACAATTTTCAGTTATATTTTCCAAATGCTTGCTGCAGCTATATCCAAATCTAATAAT
TTTTATATCGAACAAATATTTAGAAACTTTTCAAACTTTGATGTACTTTTAATGATGTTTCTTCTGATTCTTTTAGGTA
TTCTTTGTAGACAATCGTATCATCTGTGAATAACAAAAAATTTGTTTCTTCCATTCCAATTTTTATACTCTATATTTTAT
ACCACTTTTTAAAATGATTTATTGACTGGCTGCACGGATGCTTCTCTGACTTTAAAATATGAATCCCTGAGGGATCCTT
TTAAAAGGAAGATCTTGGTTCAGTGGTAGGTCAGGCACTGAGAACCTGCATTTCTAACAAGCTCCCAGGTGACAGTGAG
GACACTTGTCCAAAAAAAAGCAATGCTTTCAAAAGACTGTTAAATAGAAATGGAGAGAACAAGCATTCTTTACTTGTGTC
TACAATTAAAGAGCATGCTTCCACATTTCACCATCAAGATTAGATATCTTTGATTAGTTTTGGTAACTTCCTCCTATTC
CAAATTTGCCATACATTTTTATCGTGAATGGTTGTTTAGTTGAATAATTTTCTGTGGTTTTTCCCCTTTAATCTCTTAA
CATTGTGAATTATTAGAACATCTCATGTTTAAAGCCTTTCATGCCATATGCACACAAATATACATACACATATAGGTAC
ATAGAAAAAATATGTATTTATTGCTGCTTTATTTGCTAACATTTGGTTTAGACTTTTTAACCTGTCTTTATGATTCAGAT
TGGCTTCATGTAATCCTTGAGGATTCTTAATGTTTTTAAGTTTCATTATAGAATGAATTAGGTGTATACCCTCTTATTC
TAAGCTCTTTACATGGAACTCACTTTTATACTAGTTTTTGAGACACACTCTGTTATAATCAGCATCTTACTGATGAAGA
AACAGAGGTACATGGAGGTTAAATAACTAGCCCAAAGTCACATAGCTAGTAAGTGATAAAATTCGTTGGTTTTTGTCTG
TTGAACAATGAAGAGAATGGTTTCCTAAAATTTGTTTTGTTTAGTCACTGATTCACTAGTTCAATCTTAAATGTAATTC
AGTAGTTCAGTCCTAGAAACAGTTTTCAAAGCCACTAAAAACAGATTTAGATCCTAGTGAGGTAAAAATAAATAAATAA
ATAAAATGATTTTGAGGCCACTGAGAAAAGTGGGGCCCCTAGTAATTTGTAACAGCCTCCCACTCCCTATCAAGAGGAG
GTGGTAGACCGAGATTCTAAATTGAAAAATGAAGGCCGGGTGCGGTGGCTCACGCCTGTAATCCCAGTGCTTTGGGAGG
CCGAGGCGGGTGGATCACAAAATCAGGAGATCGAGACCATCCTGGCTAACACGGTGAAACCCCTGTCTCTACTAAAAATA
CGAAAAATTAGCTGGGCGTGGTGGCGGGCGCCTGTAGTCCCAGCTACTCGGGAGGCTGAGGCAGGAGAATGGTGTGAAC
CCGGGAGGCGGAGCATGCAGTGAGCCGAGATCGCACCACTGCACTCCAGCCTGAGCGACAGAGCAAGACTCTGTCTCAA
AAAAAAAAAAAAAGAAAAATGTAAACACTTACCTTGGCTTTGTCACTTAATGGCCTATGTCAAAAGCTTAATTTGCTTC
ATGATTTCATTTAAAGTGTATACCTTTCACTGAATTCTGCAGTGATTTAGCATAATTCACTAATAGGTATATGCCTATC
ATTTTCATAACCTTTCAGGAAATCATTTGGCCCTAGTATACTGACTTTCGCTCTAAGTTTTCCTTTATACCTGAATCTC
AATCTCTCTTACTGAGATTTAAACCTGTATCTTTACAGCGAACTTCAGAAACATGGGAAAGACTGTCATTATCCTTCAT
GAAATCCTGTGGTCCACAATGAAGCGTGTTTATTTTGTTACCACTCAGTTTGATTTCTTTCACATTGTTTCATGGTTTT
TCTTAAATTCTTACTTACTCTTTAGCATGTGGAAGTACTGCCTTTCAATGTAAGACATTTTACTTTAACAATTCAAAGA
GATTTTTTTTTCTATGCTACGTAGATATTAGGGTACAGAAGAAAATACAGGAGACATTAGCCTGCTCATGAAGGTTATG
AACTGCACAAATCATGTAGTCTTTTACAGGTTTAATTGCCTCATTTGTGAAAGGAGGTTGAACTAGGCAGTCTCTCACC
TCTCTGTCAGCTCTGATGTTAAAGGATTTTGTTCATCCTTACAATGTTTTCTCATTAAAGCTCAAATATGCATAATTAA
TGTAATGCATTATTTTTTAGGAGATTGAAAACCTATCATCTAGATGATGTGCTAACCTGATTTTTGTCAATATCATTCT
TGATTCTGTTTTTATATCTCAATATGATACAGAGTTGCAAAATATTTCTAAGCTTTGATCATTCTTTTGGGCATATTCC
TGTAGATAATTTTGAAATGATATATTTAGTGGAGAAAATGTAAAAATAATATTAAATCCTTCTAAGAAAAAACAAATGT
ATTAATAATTAAATAGCTGCACTGTAAACCAATATTCACTATTCAATCATTGATTACCAAAAAGATAGCGGCATGAAAA
ACCTCTATATTTTTATCTCATGGTTTAAGATGAATATTTTGCCCTTCATATTTATCATTTTTTAAAAAAGAACACATTT
AGACTTTGAAAACGATATGTAATGTGCTTCTACATTAATGGGAAAAACAACCTAAACTGTATAGTCAAATAAAATATTG
GAATCTTATACCTTGACATATTTTTTTAAACTAGACATCATCTAATTTCTTTTCAAAAATAGAAATAACTTTTTATCTT
TGTCCTTGGTATTACTTTATACTTGTCTGTTCAGTGGCATTGCTATTCTGTGATAAGATTTTATTACAGAAAATGTCTC
TATCTGTACTTGAACATTAGTCTAATTTTTTTTACAAATGTTCCTTGATTTGACATCTGTCAACTGATTTCTGAGTTAA
TATTATCTTTTCAGTTTCCATTCCTTTGAAATAGGAAATCCAATATTAAACCCTTCAATAAAGATGAACCCTACATCTG
TATATCCAGAATTTTGGTTTGATAAAACCAAAACTGATAAGTTCAATGGGGTTAAACATTCTTGAAGTAAAATTGGAGA
GACATTTGAACACCTTTACCCCAAGTTCATTCATCTATTCATCTTCTCTTTAATTAAGTCTGTTTGAAAAAAGCTTTCA
TTGATTGTTAGCTTCCTGGAATATGTCCTAAATATCATAAGGCATATGGAGCTCCATGACTCCTCAGAAAAGAGCACGT
TGATTGATCAGTGATTCTGCATTAGACATGCGTGCTACAAGTTTGATTTGACTGACCCAGAGAGGAATATAACCTTAAT
GGAAACAGAGAAAATATCTTCATGTCACTTGGCTTAGCCTGCTCCTTTCAGGGGATAAGTTGCCACAGCATTCAAAAGG
GTGTAGTCTATGAATATTTTTAGAATCTCTAAAGATGAGGATTTTACAACATGGTATTCAACAGCAGAGTTTAATTTTT
CTTTTTTCTCACTTAACACTGAGTCATTAACAGTTGAGACATTTTACATGACTGTGAGCAGTTGAGCACAAAAACCAGA
TGTTAAGATTGGGTACAGTCAAAAGTTTAGACATCCACACCTGTGTTATGTTTTGTTTATGTTCTGGAGCGCCAAACTT
TGTTACATCTTTGAACCCACTTCAGACCTCAAATTACCACATTTTTTAAAAGCCTCATTAGAATGGTATCATATAGTGC

Fig. 6.236

TGAATCCATAGAACAGAAATTCAGTGTTTTCAGATTGCTAATCATGTATGAAAGTTTCTGAAATCATATTGTCCAACGG
GCTGTAACTTGGCCTATTCTTCTATCTCCTAAGGAAATTGAATTGACTGGACACTGTTCATTATAAAGATACAGCAGGT
ACTTCCTTGTAACCTGTGCTCTTCTATATATTTTGAAAATTATATTCATTTTCATATTTATCAAAGTGAAAAAAGCAA
CATAGCTACTCTACTTATATAGCTCATTTTAAGGAATTTTATACTTGTTTTCTAGTTTTGTGAATTTCTTATGAATTCA
CAAAAATAATGTAAAAGCTAATGGTCTGTCCCTGCTACCATTGTGCATATTAGTCAACAAGTACAAGTAGAATATTTAA
AAGATTTATTAGTTCCTAATTATATATAGAAAAAGACTTTGAAAATTACTTAAGCCATGATTCTACCAAGATGTAACCA
CTTTTATTTTCTTTTTTCCTTCCCAATGTTGACTGGTTATATGCATATTAATGGAGCTATAATAATAATTGTATACTTT
TTATCTTACTTTCTAAACCACATTATTATTCCTTAAATATTGCTCTTTCTTCTGACACAGTCTTCTCATGTATCATTTT
GATTACTACATAATATTCTGACTTAATCGAAACTTTTTGTATTTTTTGATGTTCAAGCTTCTTTTCTCATTTGTTACTA
TTAGAAATGATGGCTCTAGAAACATCCTTAGAAGTTTTCCTTATCTTTTAAATTAAACTGCTTTTATTTTTACTAAAATA
ATCTTTAAGAACTGGGATTACTAGGTCAAATTCTACAATCATATTTGTGTCCCCTGTCATTTTGTAACCAAAAAGATGC
TATTTGAGTAAGACCTGCTTGATAACTTACTTATTAATCTTATTTTATTTTGTCTTGCATCACAAATGAGTCAAATTCT
ATTTTTCTCTAATTAAATCTTACGATCACCGGTACTTGGATTTAAGTTTTACAGTGAAACAGAAAGAATTTTAAAAAAC
GGTTTAAGTAGGAGAAATTATATTTTCAGATCTCCTTGCCTATCTGCTGGAATCACTAGTGCCACCACTTTTCACTGGT
GCTCCTTTTGCTTCACTTAACTAAAGAGTTTTCACTCAGACCCTTATGATTTCTCCAAGATGCATTACATTTTCCTGCT
GTTTCCATATACCTGGGAAATAGTTCTTTCATTTACATCTTCTGTCTCTATATTTTTCCAGGTAAGTCATGCCTCCTTT
AAATTTTTACTATTTTTTATCTATGTCTGTCTATCTCTACTAAGATGTTCTCTACCTTTGTTTCTGTCTACCTAACTAG
CTAGCTACCTACCTACCTATCTGGAACTCTACCTCTGTCTCTTATACTATGCCCATTCTTCTCTTTTCTCTTTAAAATT
TTTTTGTTGCTGTTTTCTCTTTTCCTCTATTTCTGTATCTCGTTTGTGTCAAATTGCCAGACTACTTAATTAGTATATT
CATGTTTGTTTTTGAATTTCTATTACTGTATTTTCTCTTATTAGTATTTGTTTTTATAATTATTATTTTCCTTTACTTT
TTTGTGTTTATTTTCCTATTTTTTCTAAGTAAGTTGCTTTGTGCATTGAGTTTTAGCCTTTATTTCTAATACAGTGATT
TAATTCTATTGCTTTAGTGACAATCCCATATATTTGATGCATAATATATTTATTATTAAGTTTTAAGTATTTTATAAAT
CCCTTTGATTTCTTCTCTCACTCAAGTGTTATTTAGAAGTACTTTTTAAATGTTTTCCAAAGGAATGAGTTTTTAAATA
AATACATTGTTATTAATTTCTAATTTTGTTCATCTTTAACAGAAGAGATATTTGTATAGTACCTATTCTTTGACATTGT
TGAAACTAAACTGAAAATATTAGTTAATTCATGAACACTGGATTAATTATAATTATAATATTCAAAAAATATAATTATA
TTCAAAAGTATAATTATATATAAGTTTATATAATTTATAAAGTTTATAATATAAACCTATATTTTATATATTTATAACT
TAATATAAAATTATAAAGTTTATAATATAATTATAATATTCAAAAATATTAATTTAGGCTTCCTATTTATCCTGCTTTC
TAATGTTTGTTTTCTTTTCACGTCTTTTCTGGCATTATTTAGATCAAAGTGATTTCCTCCCTTTTCTCATTGTATTTT
TCCTTCTAGTTTGTAAGTTTTAAACTCTAATTCTATTATTTTAATAATAACCCTAAAAAATTTTCCAAATATGTAACTT
AAGGCTGAAGTTAAATAATATCTTTACCCTTTTACTGTCCTCCTGAGAAAATACAAAAGAATAGATTTTTGTTCTCTTC
ATATTTGTATTACATTGTAGACATTATCATTATTATTATAGTTGTAGTAAGTCATCTTTGGTGAACATTTTCTAACACA
TTTTCCATTTCTTTGCTCAGCATTTTTTTTTTTTTTTGCATCTGAGACCATCCTTTTTATTTAAAAATGTCTTTTAGAA
GTTTCTCTAGTGACTCTCCAATAGTAGGGAATTCTCTTCATGTGTGGTTTTCTTACTATCTTATTTTGTGCTTAGACTT
GGAAGGTAGTTTTGTTGTGTATGCATTACTGGGTTGACAACTACTTCTCTTCACCTCTTTAAATACGATACTACCTTGT
CTTTTGAGAAATCACTTTTCAGTCTGACCAGTGTTACTTTTTTCTTTTTGGGTGCTTTGAAATTCTTATTTTTATCTTT
GTTGTTGTGCAATTTCACTCTAATGAATCCAGAAGTTGAGTTTTTCAAAAGTTTACTTAAAATGTATTGGTATTCCTAA
ATATGAGTGTTGGTGTCTTTTATTTATTTTGGAAAATTCTTAGCTATTATTGTTTCAAATATTGCCTCGTTGCCATTCC
TTTTAATCTATCCCAACCCTAGTAAGACTTATGTTGGCCCCACTCTGTCATTCACCTATCTTAACCTTGCTTTCATATT
TTCCACTTCTTTTTCTACTGCATTCTGAATGTTTCATTCATATATGTTTTCTGGCTCACTAATTCAACCTTCAGTAGAG
TCTAATTTGTTGTTTCACCTGTTTGTTGAGTTTCTAATTTCAGTTATTAGACATTCAATTTTAGAAGTTCTATTGGTCT
TTATTCTAAATATGTGTGTTGATTTTTATTGGTCTTTTGCTCATTTACTAAATTTTTTATCATTTCTTTAAACAGCTTA
AATATTTTTTTTTATTTTAGTTCCTTGATAGTTCCAATATCTGTAATCTTGTTGGTCTACCTGTGCAGTTTATTCCACT
GATTGTCTCTCAGGCAAGTTTATTTTTTTTATGCATTTTCTATATTTTTTTACATATGTGAGCTCATACTCTTTAGTAT
TTTATCTCTGGAAATTATCTGTGTTGAAAGTGTATTTTTCGAAAGAGGATTTGCTTATAATTTAAGTAACTGCATGTCT
GCTAACTATAGATTTACTTTAAATGAAATGTTCAACTTTTGGGCCACGCAAATATCCAATGCCATATTACATATCGCAA
GTATACACTTGTGATTAGAAATTTTTGAAAGAAATATTTGTTTTAAATATGCTGCCTGAAACCAAGACAAGTCTTGTTC
TGCATGAAAGATTGTAGCATGCCTAGTTATAGGTATTGACTTTTGGGTATAAGACTTTCTGTGAAGTCTGAATGTGAGT
TCTTTCTCTGTTTAGGCCCCTTGTTTAGATTCTTGCCCTGGAACCCAAAGAATTGGTAAATGCCTTCAGGAAAAAAACA
AAAAAACAAACAAAGCAAAAAACAATTCTAGTACTTAGTTATCCCTGTGGGACCAAGCTTTCTTAATTTCAAGCCTCAA
AAACTTTTAATTTAATGATTTAAAGCAATCATCCAGTATAATTTTAGAGCAAATTTTGTTGAATTATACCATAAGAGGA
AAAAGCACACAAACCTAAATGTAAAATGTGGTAAATTTCCATGAAGATAACATACCCATGTAAGCAGCAATTAGATTAA
TAGGCAGTATATTGCTAAGCTGTAGAAGCCCCCATTTGTGTACCTTTCAGATTCTGCCCCCACCCCAGAGTAACTACTA
TTGTGATTTCTAAGATAATATTCATATTATTTACCAAAGAGAGTGTGTTCTTTGTTCTCTAGCTTCTTTTCCTCAACAC
TGTATTTGGAAAAGTTATCTTTCTTTTTTCTTTTCTTTTCTTTTTTTTTTTTTTTTTTTGAGACAGGGTATTGCTCTGT
CACCCAGGCTGTAGTACAGTACCATAGTCATAACTCATTGCAGCCTCAAACTCCTGGGCTCAAGCAGTCCTCCTGCCTC
AGCCTCCCAAGTAGCTAGGACTACAGACATATGACACCACACCTGGCTAATTTTATTTTATTTTTTTGTATAGACTGGG
TCTCGCTTTGTTGCCCAGGCTAGACTCAAACTCCTGGGCCTAAAGGAACATTTGTCTTTATATATGTAGTTGTAGTTCA
TTTTCATCTTCATACAAATATGTTATAAATTATTTATTCATTTTATTGTTTTGTTTTGTTTTGTTTTGTTTTGTTTGAG
AAAGAGTTCCACTGCTTTGCCCAGGCTGGAGTGCAGTGGCACGAACTCGTCTCACTGCAGCCTCTGCCTCCAGGGTTCA
AGCAATTCTCCTGCCTCAGCCTCCTAAGTAGTTGGGTCTACAGGCACCTGCCACTACACACGGCTAATTTTTGTATTTT

Fig. 6.237

TAGTAGAGATGGGGTTTTGCCATTTTGGCCGGGCTGGTCACGAACTCCTCATCTCAAATGATCCACCTGCCTCAGTCTG
CCAAAGTGCTGGGATTACAGGTGTGAGCCACTGTGCCTGGCCCATTTTATTATTGGTAAATATTTGTTTTATTTTTATT
TGAAACTATTACAAATCATGCTGCTATGAACATTACTGTATACATCTTTTTGTATAATGCATATATATTTCTGATGGGT
ATATAGCCAGAAGTGGAATTGCTTGATTATGAGGCATGCATTTTTTGAAGACTGACAGACAGTTTTCTCAAGTAGCTTC
TTCAATTTAGATTCCAACCAATATTCTCTATTTTCTAAGAGCTCCACATTCTTGTCAACACTTCGTATTATCTTTTTCA
TTTTAACCATTCTAGTTGAGTAATATGTAGTGTTATTTCATTGTAATTTTAATTTTCACTTCACTGATGTCTAGTGATT
CTGTGCATTAATTTTTTTTTCTGGACTTTTGAAGTGTTCTGTATGGGAAACTATTCCTCCATTTAGCTAGCTATTTTGC
TGGAAATTATTGTATAAAATATCATCTCATAATTTAACAGTATATTCCTTCTTCTCTTCAAATTTTTATTAAAATAATT
TTTCAGTACTCTTGAAGTCAACTTTTAATTTGTCCAACCTGTCTTTGAGCTCCCCCTGCTGTTTTCTATTTAAACTATA
TACCTGTTGATTATGCATAATTTTCTTTAAAATGATGGATTCTTAGCCAATAAGCTATTTTAAGCAGAAGCATTTTTTT
TGCCAAAGACTAAGGGTATAAAATAAATTTAAATGCTAACTCAGGATATAAGAATTATTAAAATTAATGCTTGAAAACT
AGTATGTTACATATGGGAAATCTGTATACCTTCATAATTTCACTGTGAATCTCACTCCTCTAAAAAATGAAGTCTTGAA
AAGTTAGTATTTTAAAATACTTACCTTACTTGTAATGTGAAACCATTTATATTAATTTAGCAAATCAATGTTTCAAATT
ATTAACAACTAGACAAACTACTGAGCCATATGTTAGGTATATTGTAAGCATGTTGAAGTCAACAACATGACTTCTACAC
TTTCTACTTTCTCACGGTTCCCAGAATATCTATTTTGACATAATTATTGAAAAAAAATTAAAAGCATTTATTCCATTGT
CTTGCTACATCTAAATTCATGGTGTTATGTTTCTTTAGGGCAATGGAGCTGAAATGAATAATGGATACCATGTAGTGTT
TTTATATATTTCATCTATGAGCTATGACAGATATCTCCCTACATTCCAGCAGAAAAAAAAATGTGCTTCTTTCCTAAGC
TTGCCAGCTATAAAGGCCTATTAGACATTCAGAGATTATCAGGAAGCAAAAAGCTTCATAGTCTTAACAACGTAAATCT
GAAGTCTTAGAATGAGTTCATTAGAATATAGACATTGAATATGAGGTAAGTCTGAGTTGAAATTCTATCTCTGACAACT
GCTGGATCTGTTTTTGGTTTCCAATAGTAAAATGGCACTAATAATGATATATGCAAAATGTAAAATGCTTAGCACAGTG
CTTGGCACATAGTAGATTCTAAGCTGTAGTTTAAACAGCTATTGTGCTATGAATAAGCCATACGTTGACATTTTCCCTC
TTGAGAATGTGCTATTTAAGTGTAGAAAACCTGCTTTCCCCTGTCCGTGTGAATTTCCTTAACATTCATCTTGGAAATG
ATACCACATACCCTTATATTGATGCACTGCAAGAGGCCAATCTAATGTAGGCATAAAAAGAGTAATCTGGTAATCTGCT
CTTCTCAGCACCCTCTGCTAATAATGCTGTTTGAACAAATTCTAGAAAGACTGTTGATGCCAGAGCCAACTCAGAATTA
GGCAGGTGAATGTTTTCAACTTCTGCTAATAATAACATCAGTTCTGTACTCTCCTCTGGGTTCTTTTTGCTGTATTAAA
GCTGCAGTTCCCTTAGGTTAGCTTCTATGCATAACCTGGGAATGCATATTTTAGCTTTTTACTTCCCTCCCAAAGAAAG
GAGCAGAAGAGGAGAACCAAATAGCCAAGATCTAGAAGATGAAACTGTTGTATCCATTGTGTGGATTCAGATAAGCCTC
CACCCAAAATATGGTTCAAATGTTAAGACTAATGAGCAGCCCTACACTTCTCTCTCTCTCACTTTCACACACACACATA
CACAAACACACGCGCACGCACACACACACACACACACACACACACACACACACATATACCCCTACCAAGAAAGTATG
AAAGTATGTATTACTTATAAAATTATGAGGTTTTTCTGGGGAGAGCAGAGCAGGCCTCCCAAGAAGGTCTGAAGTAGCT
TGAGAGAGCAGGGGGAAAATGACTGGTTTGAGATTTTATGACTTTTAGTGGGTGAGGCCATGCTGAGAGTTTTGTGTGG
GTGGACTCTGGTGTGGTTTGAATTTCCCACCATCACCAAAGGAGAGAACACATGGGCTTTCTTAACAGTTTTCCCAAAT
GTAGGACAGAGGGGAAGAGAGAGGTATAACACTTTAAAGCTATCAGCAATGACACATCAAAAAATGGACATAGATTTTT
TATTACAGAAATTAAATTGTATGAGAACAGAAATGAATCCCGGTGCTACACAGCTGATGTTTCCTAGGAATGAGAACTA
GGGTAACTTTTTTAAAGCACGTGTTTATATTGATTGGTACATACTAGTTAGCCAAATTTAACTGGGTTGAGATGGTGGA
CTTTCCTTTTGAACCTCAGTTATGCAAATTGTAAGAATTGTGTTTCCTTCAAATTACTCAAAATAATATTGAATTTCTT
ACAAATGCAAAATGAATTGTGGCTTAATGTGCATATGTATATAACAGATACTTTGTTCAACTATATTATGAAATACTAT
AGTATGTAACTTTCTTAAATAAACAGGATGACAAATCAGTGTTAGGATTCAAATGGGCCCTATATTACTCTGTATCTCT
CATAGGCCAAGTGTTAATTCTGGTACACATGACATTTAGCACATGCTATTACATTTATTGATTGCATATTTTTATCTGT
TATCTTTTGGTTCATTCTACAAGGATTCTTCAAAAGAAATCAAGTAATCCTAGACCCCAATATATAAAAGAAACCAACT
CATCCTAGACCCAATATATAAAAGTAAATGACATTTTGTTCTTGTCTTAATAAGTTCACAGTATTTCAGGAAACATGGG
AATACAGAATAACAGATAAGAAATATTATAAGACTTCTAGTAGAGAAATATGCTTAAAATCATATGTATGTTCCTTTAC
ACCTAAGAACCTTTAGATATAAATGCATTTTAACTGTTCTGGAGAGTTCCAACTCCAAAATAGCCTTTGTTCATATCAA
GAAAGTAAACCACCTTCTATTTCAGGTGGGCTTACTCACCATACCTGGGGCCACATTACTGTCCCAGCTCACTGAAAGG
TCATAATCCAGGATGAAACCAAACTTGAAAATTATAGTGAAACACAGTAGAATAATTTAGAAGCATATACTTTGATGTT
TTTAGAAAGTAAGGAAATAAAACTTTAATTGAACTTGGAATAAACTCAGTTCTGAGCATTCCATTCTACTCTGCAGTTG
TCATTTATAGACAGCTGTGGATCATAATACCTATAGACTAGATATCGTTATCTACTTATTTATATTAATGACAGGATAT
CCCTGGGCAAACAGCATCACCACTGTACTGTGTATTCTTGGTTGTCATGGGAACCTTTGCTGTGAACCAGCAGTGAGAG
CACTTCCATTGAATAAAGCTGCCTCTGGATAGCCATGAGTTGCATGAAGTTATTTTACTAATTTTATTTGCCTTTTACT
TGAAAGCATAAGTTTCTGAGGATGTAATTACAGTTTCCCCTATATTTCTACAGAAGTAGTTATAGATGATGGACCTCCT
GAACTTTTATCACTTTGCCATACTCTGTAAAATTACCTAAGAGCTCCAGAGCATGAAATTAACACTCAGGAATATTGTA
GCCTAACCTTTTTTGCTACTCTGAATAATACTGAATTGAAGGGTCTTCCACAGCAAGCCCTCTTTAAATTATGCTTTCT
GATGCTTTACCTAAGGCTATACACTTGTCTTTAGATTCTTCTAGATTATTTTCTCCTAATACAGAACTTAGCATTTAAA
TGACAATTTTAAAAATTGAGATCAACTCTTCAAAAGAAATCAAGTAAAAGCAATTTCAGCAAAAAAAAAAAAAAAGCCT
TCTAATCTCCTACAAAACACCTCTATCCTATCAAGATATTGTGATTGAGAATTAGAAATAGTGTGGAATCAGATGTTAG
TTTGTCCTTTCCTTTTCACTGGAATTTCTCCATGCTTTAATTTTTATATCAAGAAAAACAATTCTTGCAATATTCCCTA
AGGAGAGTTTTACAAAAAAAGAGATAAAACAAACTACACACACACACACACACACACACACACACACACACACACACTA
CCTTAAGGAATAAAGAAATTATCTGAGTGGAAAATAATGGTGCTTTCAATTTTCCTAATTGAATTAAAATAATTATCTA
AGTCTTTTTGATCTTGTCCCAAAGTGAATAAAATGTCTTTTTTTAAATTTATGTTTCATTAGATATATCTCCATCTTTT
CAGTATTCACCCCAAGTTTTAATTGGGTAGAAGAATATGGAAGAAATTCCTATTGCTCAGACACCATGTTTAAAGCTTT

Fig. 6.238

CTGAATGTGATCTAATACCTCCATTGGTTGGAGGTAATTAAACAGAGATCTGTTCTTTTAAACAACTATTTGAGTGCTT
TAAATCTGAAAGTCATGTCATAAATGTCAGACCTCTTTCTCTTTGCTTTAATCATCTCAGAAAGACTTATCTGTTAATG
GAACATCTGCATATAGGTATTTTGTTGACCACAGGTGTTCCACATAAGTTTAATCTACCTATTAGTTATATGTTCATGC
TATTGAGGACCTTTCAATAATAAACTTTACTGAGTGCTTACTCTCTTCTAAGAGTAATGCACTATGCTAGGAGACAGGA
GGGATATAAAGGTAAAGAAACCATGGCATGAATCTTTAGGGAGATTATAATTTAGTGGAGAACACTAGTGAAAGGAGGC
AAAGGAATTAATAGAACAAGACAGTTTCTCTGAGTCTCCAAAGGCACTGTAAAAATTCCTGGGAAACTGCAAGCAAGA
GCAAAATGTTAGCTATCATAAACATTCTCATGCATCTTCAGGTTTTATCTTCATCCATAAATTTACCCATTAAATTTAG
ACATTCTACTATCTATTCCACTTGACATTCCAATTAGCAGCTCAGCCTCAGCCTATCAATATGAATGCACATCGCTTCC
CTGTTCTCTTGCTGTGCCAGTCTTTCCCCAGTGTAGTTAGGTAGTGTCTCCAATCAGTCACCATCACCATACTGTGCTG
ATTTTATATTCTGAATATTTTTTAAGCTTTTTCCTTTTTATCAATTGACTACACTAGTTTAGATCTTCATCATATTATT
GTACACAACTGCTGGGTTTTTTCTGTCTGGAAAGTCTATTTTCCTCTTTCCTCCCCAGCTGCCTCTTTCTTCTGCCTCT
GGATGCATTTCCTCATTTTCCTGCCTTCCAAGATGTATTTAATACATTCCTCTGTGCTCTCATATGCTGATACATGTCT
GTCGCTGTATTTGCTGTGTAATATCCAAATTATTTGTGCATGTCTTTGTTTTTCTCCAAAAGTTGCAAGCTCCTTAAGG
TCAGGAGCTGTTCTTTAATATATCTACTCTACCTAGTGTAGTCATGCTTAATATTTGTTGAAGTAAACAAATCTGAACC
CCAAATGTATTATGTAATCTCCATATCCCAGCACAGATAAAGGATATGCTCTTGAATTGTTTTATTGGGAGAAAACAGC
TGACAGATTAGGCTACACAACAACTAAAAACTAAGAAATGACTACATGATAAATTGTAATGAAAATCGGAAGGCAGACT
GACTGAGGAATATATCTCTAACAAGTATTCAAAGATATAATTTTGTTATTGTTAAAAAGAATACAATGAATGGAGAGAG
GGTTTGGATTTCACATTCAGGACTTCTGAAGACCAAGTATAAGAGATTCAAAAGTGATAATGTGAATCTGATTAGAAAA
TTCAATTTTGGAATTTAAATAAGAAAAAAATTAGTTGGTCTAGCAGGTGAGGCTATAATATGGAAAAATGAGAAAGGGA
TACAGCACTGAAAGTGAAAATGTGGAAAGAGAGAAGATCAGAAGGGGAGAAAAAAAGAAGAAATAAAGGGTTAGAGTTT
ATGAACTGTACCAAAAGAAATGATACAATGGCCAGTCCTGTGAGGGTAGTAGAGGGATCTCTTTATTGTATTTTCTTAT
TTTATTTTTATTTTAGATTCAGGGAGTACACGTGCAGGCTTGTTACATGGGTAAATTGCGTGAAGCTGAGGTTTGGGCT
TGTAATGATCCCACTGCCCACGTAGTGACATAGGACCATAGGGAGTTTTTCAACACTTGCTCACCTCCCTCCTCCCACC
CTTTTGGAATCCTCAGTTGTTCAGTGTTTCCATATTTGTGTCCGTGTTGCCTCCAGTGTTTAGCTCCCACTTATAAGTA
AGAACATGTGGTATTTGGTTTTCTGTTTCTGTTTCAATTCACTGAGAATAATGGCCTCCAGTTCCATCCATGTTGCTGC
AAGGAACATGATTTCATCTTTTTATGGCTGTATAGTATTTCCTGGTATATATGTAGCACATTTTCTTTATCCAGCCCAC
CATTGGTGGGCATATGGGTTGATTCCATGTCATTGCTCTTGTGAATAGTGCTGTGATTCACATATAAGTGCAGGTGTCT
TTTTGGTAGAATGGTTTATTTTCCTTTGGGTATACACTCAGCAGTGAGATTGCAGGGTCAAATGGTGGTTCTATTATTA
GTTCTTGAGAAATCTCCAAACTGTTTTCCACAGTGGCTGAACTAATTTGCATTCCTGCCAACAGTGTGCAAGCGTTCCC
TTTTCTCCACAGTCTCACCAACATCTGTTACTTTTTGATTTTTTTAATATACTAGCCATTCTGAGTGGTGTGAGATAGT
ATCTCATTGGTTGAGTGTGGTTTGCTAATATTTTGTGGAGGACTTTTGCATCTGTTCATCAGAGAGATATTGGCATGTA
GGGTTTTTGTTGTTGTGTCTTTGCCAGATTTTGGTATCAGAAAGATACTGGTTTTGAATTAGGAGTTCCTCCTCCTTGA
TTTTTTTTTTTTTTTGAATACTTTCAGTAGTATCTGTATCAGCTCTTATTTGTATGTCTGGTAGAATTCAGCTGTGAAT
CCATTTGGTTCAGGGCTATTTTTGGACATTAGGTTTTTTATTACTGATTCAATTTCATTACTTGTTATTGGTCTGTTCA
GGATTTCAGTTTCTTCCTGGTTTAATCTTGGGAGGTTGTGTGTGTCCAGAAATTTATGCATCTCCTCTAGGTTTTCTAG
TTTTTGTGCATAGAGATGTACATAGTAGTCTCTGAGGATCTTTTATGTTTCTATGGGATTGGTTGTGATGTCACTTTTG
TCATTTCTGATTGTGCATATTCAGATCTTCTCTCTTTTCTTGTTAATCTAGCTAGCAGTATATCAATCTTTTTTTATCC
TTTCCAAGAACAAACTTCTCATTTTGTATATCCTTTGTATAGTTGTTATGGGTCTCAATTTCATTTAATTCTGTTCTGA
TTTTAGTTATTTCTTTTTTTTTCTGCTAGCTCTAGGTTTAGTTTGTTCTTGTTTTTCTGTTTTTTTTTTTTTTTTAGGT
GCGATTTTAGGTTGTTAATTTCAGATGTATCTTCTTGATGTAGACATTCAGTGCTAGAAACTTTCCTCTTAACGCTGCC
ATTGCTGTACTCTAGAGGTTTTGGTATGTTGTATCTCTATTTTTGTTTGTTTCAAATAACAGTTTGACTTCTGCCTTAA
TTTTTTGTTTATTTTAGAGTCATTCAGAAACAAGTTGATTAGTTTCCTGTATTTGTGTGGTTTTAAGAATTCCTCTTGC
TGTTGATTTCTGTTTTTTTTCCACTGTGGTCTGAGAAGATGCTTGGTATGATTCTGATTTTTTGAAATGTATTAAGACT
TGCTTTATGACTATGTGTTCAATCTTGGAATATATATCATGTGCAGATGAGAAGAATGCATATTCTGTAGTTGTTGGGT
GGAGTATTCTATAGATGTCTATTAGGTCCAATTGGCCAACTATCAAATTTATTAAATACAAAATTTTTTGTTAGTTTTT
TGCCTGTCTATTGCTTTCACTCGTGTGCTGAAGTTCCCCACTATTATTGGGTGGCCATGAAAGTCTTTTCATAGGTCTA
TAAGCAATTATTTTATAAATATGTATCCTCCAATGTTGAACATATATATATTTAGGATAGTTAAGTCTTCTTATTGAAT
TGAACACTTTATCATTATGTAATGCCTTTCTTGGTCCTTTTTTACTGTTGTTGTTTAATGTCTATTTTTTCTGATATTA
GAATAGTGATCCTTGTTCTTTTTTTGTTTCCTATTTGCATGATAGATCTTTCTCTATCCATTTACTTGCAGCCTAGCCT
ATGGGTGCCATTACAAGTGAAATGGGTATCTTGAAGTTAGACTTGTTTTTAGTCTAATTTGCCACTTTTTGCCTTTTAA
ATGGAGTGTTAAAACACTATGACAGGAATAAAACCTTACATATCAATATTAACTTTGCATGGCCAAAGTTAATATTTTA
TGTTAAAACACTATGGCAAGAATAAAACCTCACATATCAATATTAATTTTGACTATGCAAAAGTTAATATTGATATGTG
AGGTTTTATTCTTGCCATAGTGTTATTATCTGGTTGCTTTGTAGTATTGATTCAGTCACTGCTTAGGGCCTGTGGGCTA
TCTGCTTGCATGTGCTTTCATGGTAACAAGGATCATCCTTTCCTTTTGTTTTCATGTTTAGAACTCTCTTAAGTATCTC
TTGTAGGTCTAGTGTGGTGGTGATGGATTCTTTTAGCAATTGCTTATCTGAGAAAGAATTTATTTCTCTTTCATTTATG
AAGTATAGTTGGTGGGATATGAAATTATTGGTTGGCATTTTTTTTCTTTAAAAATGCTAAAAATAGTCCCCCAATCTCT
TCTGGCTTGTATGGTTTCTGCTGAGAAGCCTGCTGTTAGTCTGATGGGTTTCCCTTTATAGATGATATGACTGTTTTCT
CTAGCTGCCGTTAAGTTTTTTTCTTTCACGTTGACCTTGGATAGTCTGATGATTGTGTGCCTTGAAGATGGTCATATTA
TATAGTATTCTTCCAGGAATTCTCTGGATTTCTTGTATGTGCATGTTGACTTCTCTGGCAAGATTGAGGAAATTTCCCT
GAATTATATCCTCAAATATGTGTTCCAAGTTGCTTAGTTTCTCTTATCTCAGAAATGCCAATGTCACTTTACATAACCC

Fig. 6.239

CATATTTATTGAAGGTTTTATTAATTGTTTAAAATTATTTTTTTCTTTATTTTTGCCTGCCTGGGTTGATTCAGAAAGC
TAGTCTTCGAGCCCTGAAATTCATTCTTCTGCTTGGTATAGTCTGTTGTTAAGGCTTCCAACTGTATTTTGAAATTCCC
ATAGTTAATTTTTCAATTCCAGAAGTTGTGTTTGGTTCTTTCTTAATATAGCTATGTTGTCTTTCAAATCTTGGATCAT
TTTTCTGGCTTCTTTGTGTTGGATTTCAACTTTCTCTTGGATCTCATTGAGTTTCTTTGCCATCTAGATTCTGAATTCT
ATATCTGTCATTTCAGACATTTCATTCTGGTTAGGGTTCATTGCTTGGGAGCTAGTGAGATTCTCTGGAGGTGGTAAAA
CACTCTGACATTTTGTATTGCCAGAGTTCTTGTGCTGGTTCCTTCTCATCTGAGAGAGCTGATGCTTTTTTCTTTTCTT
TTTTGAATTTGCTATTGTTTGGATGGAGCTTGTTGATTTTAAATTCTTTTTTCCCTTGTGGGTATGACTGTGGTGTAAA
ATGTGTATGGGTGGATCAGCTTCATTTCTGAGTGCTTTCAGGGCGCCAAGGCTCTGTATGGGTTCCTTGGTTGCAGATA
AGTTTGTGCGGTGGCTGAGACGTTGCTTCTTGTAGTGATGTAATTTTGTTTTGTAGTGTAATTCAGGCTGCAGCCCAGT
AGGTGGCACTTAAGAGTGAGCGCCAGAAGGTAGGGGCAAGGGCAGAAGCAATGGAAAAGTCTGCAAAGTGCCCTCCTTC
AGCGCGTTTGCCTTCAGTGGGAGTGGAATTGCTGGAGAAGCCCCAAAAGTGGTCTCTTTCAGCCCACACTCTCTCGGTT
CCGCTGGGGAGAGCCACCTTCGAGTCCGCAACAGTACACTGAAGAGGGATGAGAGAGGTGAGCGATGACCCCTTCTCGA
CAACCATTCCCTGGCTTTGGTGGCGCCCCCTTCAGTGGCTAGCGCAGTGCTCCTGTTTCCTTTGACCCAACCTTTGACC
CAAGAGGGGCTTTAGCCGGCTACATCCCCCTCCCTTAGGGGCCGACTGAACCGAGGGCTAGATTTCTAGGGGAGTGGGT
CCCTTCCCTTACCACTTTTCAGAGCTGGTGGGTTACTGTCCCCCAACTGAACAAGGAAGCCGACTGGGGAACCCAGTAG
TTGATATGTAAGGGATGCTGGGAAGTGCTGGGTAAAGAAGGGTGAGTCCCTGGCGAGGGCTCCACCCCCAGGCCTGTGC
CCACGGACCTAGGTGAGGACAGGCACTCCAGCCTTTGGGCCCAAATGTTGCATTTCCCAAGACCAACCTAGCCTACCAT
GCCCCCTACCATCCTGTGCCTATAAAAACCCCAAGACCCTAGCGGGTAGAGACACAAGCAGCTGAAAGTGGAGAGGACA
TCGAGGGGAGCACGCTGGTGGAAGAGCACACCAACAGATGCTGCCACCTGGCAGGCCGTCCAGCAGAGGAATGACGCGG
AGTTTGGTCGTGGCAGTCATAGGAGAGCCCGGGCTGCTGAGCGGCTGGACTCCAGGGGGAAACCATCTCCCTTCTGGCT
CCCCCATCTGCTGATAGCTACTTCCACTCAGTAAAACCTTGTACTCATTCTCCAAGCCCAGGTGTGATTCAATTCTTCC
CTCACGCCAAGGCAAGAACCCGGGATACAGAAAGCCCTCGTCCTTGTGATAAGGTGGAGGGTCTAATTGAGCTGGTTAA
CACAAGCTGCCTATAGACGGCAAAACTGAAAGAGCCCATGGTAGCACATGCCCACTGGGGCTTTGGGAGCTGTAAACAT
CCACCCCTAGATGCTGCCGTGGGATCGACCCCCACAACCTGCATGCTCCCCTAGAGGTACGAGCAGCAGGGCACTGAAG
AAGCGAGCCACTTCTCCAGTTGCACACCTTGCAAGGGGGACAAGGGAACCTTTCTCATTTCGTAGCAACACACGCAGAC
TGGTTCCAGGTCTCAAAGCTGCCCCTAGCTGCATGTCTTGCCACCCAGAAGAAACCTGGCTTCGGGAACTCTCCTGCCC
CTGCAGTCTTCTAATGCTTTATGTCTCTTCTCTATCGCATCCAAGCATTCTCTCCTAGACTATCTGCTCAGAAGGTGTC
CACTTACTATTCTGGCGTTTCTCTGTTGGGGAGCCACACACTACCTGCTTCTGCTCAGCCATCTTGATCCCTTTCATGT
CTCTATTTATGAAGGATGAAAATGGAATGGAGACATGGAGATTGAGGATTGATGATGAGGCTTGTTGAAATTTGATGAT
AATTTCACTAAGAAACTTAGAAACAGGGCCAGGGGGTAATAAATGAGAGACACAAAGAGAATGGAGTAAGTAGATATGA
TGGACTTGCAAAGAAAAAACCTTGTTGAAGAGCAGACGTGAGCTAATGGACTAAGAGAAGCATGCAAGTGGGGAGACTA
CTTCTGATAGTAAACATTTTGGAAGAGTGTGCCATCAGGAGAAAGCCCGACTTCAGTGTGGTCAAGGAGCTGAGCAAGT
TATATCCAGAAGTGATCAAGGATATTTGTGAGTTTGCTTACAATATCATAAAGGCAGGACAAGACTCAAGGAAGATTCC
TAGGGAGGAAACTGGTGGGGAAGTCAAGGCCAAACTGGGCTGGATAAGGTAGAAAGAGCATATTGATGAAAATAACAGC
CTTAGGTGGGAATTGTAGGGGGTAACTTGAAGGGGATTTGAATACAGGAGCCTGTGTTAAAAACTAGCTTTTTCTTTTC
TTGCTTTTTTTCTTAGAAATGTATAGAACACATCCATTTATTCCAACACTCCAAGTGAGGAATAAGGTTTGGGCTCAGC
TTGTAGTCCGCACCAATCACTGAGTATTATTTTGAGGGGCATGTTTACGGGGAAGGTACGTTGCTGGTGGGATTGTTTC
AAAGTCTTAATGCAAGTGCCTCAGGTCTATTGCTAGACATTTAGAATTTTCTTGGTTTTTTGAAAGAGAAAGATTAGGG
ATAGTTAATAGTAGTTTAAAAGACTGTGCAACCTTAGTAACATTTCTTTGCAATAATTAATTAAAATCACAAGGAAAAT
TTTTGCAAAAGTTTGGGCATATAAAATAAATGAAAGTTATGACTAACAGTTCAACTTTCTCCTGATGTCTCACTTTTGT
GAGAACTGATGTAGACCAGAAAATAAATTTCTAGGTGTTTTTTGTTTGTTTGTTTGTTTTGTTTTGTTTTGTTTGCTTA
GGTTGACAGATCTAATTTTCATGTCAAATTAGGACACTGACTTTCCCTAACAGATGTTCAGGAGCTGAATTTGTATCCT
AATTCTAGTCTTGCTAGTATTTATTTTTGAGACCTGCAATCCATCATTATACTAACATGGCAATGCCTAGGAAGTTTAA
TGGCTATACGACTTCTAGAAAGTGCCTTTATTACATATCTGACACATTGCAAATTCACAAGTGGAGTACAAACAATTTC
AGCAGCTTAGATGACATTTTCCTTCCTGCCAGTGGTCTGAACTCACCAGGTAGCAACACCCAAAGCATTACATTCTGTC
TCCCTGAGTTGCATTGTATTTTTGATATCACAGCATAAACTGTCAAAGGAAGTATTTCTCTAATTTTAATTGGGGTTAC
TAGGGTCAAAGCCAAGTTTCCAAAGCTCATTTTGTTTTTATCTTATTATCATGCATTTATAGTAAGCCATTTATTTTTT
GAAGCAATCCTTATTATAACTTGGAAAAAAACTATTTCGTAATGTGGTCAGATGTGATTAGATCACTGTTTTATGCTCA
GACGTATGTTCCACCTTTTCCCATAATGCTGTGACATTTGGGGTTTGTATAGCTTCATGAATCGAACTTAAACAGTAAT
GCATTTTCACAAATAAATAGAATCACTCTTCCTACCTATTATGATGGATCTTAAAATATCCTGCCACATCTCTCTCGTT
ATTCATTCAGTTTCTGATCTTAGTAATTTACCTATACATTAAAACATTGTAATTATGTATTTAAATCACCAGGACACCT
ATCATTTGGTCTCTAAAACTGAGTTGCTGGTTGTTAGAGAAAAATGTATTTAACTTGTATTTATGAATATAACTGGATG
AGATTCTGGTTATTTAATAGGCAGTTTAACTTGAGAAACAGAGTAGATGGGAAAAATGAGAACTTACTGTGCTTTAACA
ACTTTACATTAATTTGTTGGTTCATTGTGAGCTAGTTTATTACAGTATATTGAACTGTTTACCAAATAGTAAACTCGAT
TCCAGTGTTTAGAACATGCTTTTTTAAAATGACATTCTTAACCATTTTGCCTTATTGCAAGGCATTTACGTATATACAT
TGAGAAGCTGTATCTGATCATGTTTCTGCAGAGATGTGTTATGAACTGCTTTAGTACACGGATTTTTGAATCTTAACAA
AGGATTTTGGCCACCTGCAAAATAAGAGGTTTTCATTCTTTTTAGAATAGTCTTTTTTCTGGGTCCCCAGTGTATATTT
TGCCAAAATGCCTAAAATATTGCAATAAAAAAACTCAGAGTTTGGTACCAATCTGACAATTAATTTTTTTAAGCCTTTA
AAAGTATATAAACAATTTTAGCCAATGGACACCTCTCACTGAATTGACCATATAGATCATATTAGTCCATTTTCACACT
GCTGATAAAGACACCCTTGACACTAGGAAGAAAAAGAGGTTTAAGGGACTCAGTTCCACATGGCTGGGGAGACCTCACA

Fig. 6.240

ATCATGGCAAAAGGCAAGGAGGAGCAAGTCGCGTCTTATATGGATGGTGGCAGGCAAAAAGAGAGAGCTTGTGCAGGGG
AACTCCTCTTTATAAAACCATCAGATCTTGTGAGACTTATTCACTATCATGAGAACAGCACGAGAAAGACCCACCCCAT
AATTCGATTGCCTCCCAGGACACATGGGAATTGTGGGAGCTACAATCCAAGATGAGATTTGGGTGGGACACAGCCTAA
ACATATAATAGACCTATCAGTTCCCTACACTAATAAACTTCCCTGGTATTATTTCCACAGCACATGTACCCTGGAAAAT
TAGCTCCAGGTGATGAGAAATTCAGTTGAGGGCAGTAAAAAAGAAACCAGGTATTCTCACACTAATTTGAGGGTTTAAT
CTCACTGGGCCTCCTGTTTGTTTTTAGTGCATTGGAGGAAAATTAGATTTTCTGAGTAAATAGAAATGAGCAATGTTCC
TATGTATATACACTTAACTCTTCAAAAAGAACAACATAGGTCTGTACTGGCACAAGTAAAATGTTGTAGAAATTGGGTC
AGGTGCCAAGTGTGAGCAACCTCACTCTCCCTAATCAGACAGCATTTCTTATATTATTTCTGGATTAATATAAGTAGGT
AATCTTGAATAAATTCTCTAGTGAATGTTCTACATCATTTATTGTCAGTGAATGTACAGATGGGATAGTCCCAGTAAAT
TTTTTTAGAAAACCAAACCATGTTCAGGATCATGGATACTTGTATTCAAGGTTTTCATGGGCATTCAAGGAAGAAAGAG
GTGATGCAACATGCCGTAAGCCAGATTCTCTAGAAAACAGACTTGGAGGCAGAGATTTAGGCCCAAGAAATTTGTTTGG
GGGTGGGGTTCTCTTAAGATCAACACCTGTGTGCAGTAGATTTCTCTCTCTTTGGATAAAGGCAATTCCAGGAGAGAGA
CTTAGCTGAGAAGACTCCCAGCTGCTGGGGGAATGAATGCCTCAATCCTGAATGGGTATCTGGGTTGCATATTTGAGCA
AAACATCCTAACTTTAGTAAATAAAGCTACAGCTTTTTCTTATTTCTCCTATCTGCTTCTTGCCTGGGCAACCTAAAAT
TTATCCATTATCCCTGCTATCTCACCAGGAAGAGTATAGCGATAAAGAGCAATTTCTATATCTTATACATTATATTTAA
CTATAACATTTATTGTTATTAGATAGTTAGATTAAGTAAGAAATAAGGTATTCATGATTCTTTTGAATCTGTGTGAATA
TACATATAGTTAAATAGTGACATTGAAAGTATGGTGAATTTTTATATCATCTTTCTGGAGAAATACTGAGGAAAATACT
TGAATTTTGCATAACCAAGGCATCAGTTACTATTCACAATGAGACTACAGAGAAAGCTTTCCAAAATGTTTAAATGAAA
TATGCTTTCAATGTTATGTGGTTTTCCTGTGATGTAGCTACTTAATTAGCATTGTATCAATCACCACTGACATCAAATA
TGATAACTTGCTTTACTGGAAAGTCACTGCTCAATCTCATGAATGAAATTGATGAGGTAGAAGGTAATGGTGCATTGCC
AAGAAAACAAGAAAGAAGGGAGCTAAAAATTGAGAGTTACCTACTTTGCAGTATCTGCTTTATATATGGTATCTGATTT
CAGTTTATCTGAACCCTCCCCTGGAAGTAGCTATTATCAACTTTATGTTATTTACTTACTCATTTTATTCTTTTTAAAA
AGAATAATGAGATGTTTTAAACATAGAGAAAAGTGCACAGGGCAATATAAAATCACATACATAATCATCTCCCAAGAGT
AACTAATGTCATTATAGGTAAAGTTTGCTTCATATCATTTTAAATATAAATATTGCAGATATGCTTGAAATATATGTTA
GGCCATATGTGTTCAAGCTGAGGAAAGGTAGGTTCAGAGAGAAATAATCTTGGCCAATCTCACTCTGCTAGTAAGTAGG
GCTAAGATTTGATCGTCTATACGTGGATCGTGGAACTCATGTTCTTTCCCTCCACTATGTATACTTCCTCTGTACTCCC
TGAAGACTTAATCTGGATAGAGATACATTGCCTAGAGTTTCTCTATAGTGGGAGAAATGAGCCTTTTACTTTCGTGGTA
CCACGTCAGTTGCCAATTGATTCTGGCACATAAAAATGTATTATATCTTTACCTGTTTAATTATTTTCTGTACCACATC
AAAGGAACAAGATAAATTTGGTTATAATAGTTTATTTTACTTTAATTTACTATTATTAGTCATTGCAGTACACAAATGC
AGATGTCTGAAGGGATGCACAAAGATGACAAATGAGGCATGTAACATATAAAGAAATACTACATTTCTAAGTGGTTTAC
ATTATGTGTATGAACATGAATTACCTGCATGGATTATTTTTAAGTTCAGAAACTGTTTTTAGTTGGTTTTCTTTCTTTT
CTATAGCTGTTATTTATGTCTCCAGCTTCATCTTCAAAGTGGAGATCATAATATTTATCTCATAAGACTCTTAAAAAAT
GAGATAAAAGCATTTGATGAAAGCATATGAAAGCATTTGACTGAGCAATTAGTATAAAGAAGCTACTTAGTACTTATTT
GCTATGGTCACCTGAAAAGAAAAGCTATTTTGCATGCAGTGGTAGGGTTGAGAAACAGCCAATATATTAAATATTTTAA
AATATTTTTGTTTAAGTTCAACCACCTACTTTTTAGAAAATCACTTAGCATATGAAATTTATTTAAGAGGATACTTAC
TCCACAGTTGCTTTAGAAGAAAGAAAAAGAAAATCAGTTTGTAAAATGAGATAATTGTAAGGGTATCTCATCTTTGTAG
CCATATGAGAGAGTCCAAAGAGCTAAGCAAATATTTGCGAAATGATATTTTTACTATACTGGAAGTAATAAACAATTAA
AATGTTGTTATTAAGGCAGTGCTGATATTATAATTTTACTATCTCTAGAGGAATACCAGAGATCTTATTAAACACATGC
TTTTTTAAAGTTGAAATCTTAGATAACTATTATCATTACTATATGTGTAAGAAAACAACGGCATGGAGAAAGATGTGCT
CTATAGAAAACTGGTAGGTTATTAAAATATAAAGAAATAGGGAGAAAACTGAAAATTGCATGATATTGTCAAGTCTCCC
TTGGGACTCACCCACACAACAGTTCTTTCATTGCAAGTTTCTTTTTTCCTTAATGAGTCATTTTGAGTTCTTTTTAATG
TGGGCACAAGGAAACAAATAAGGATTCTTCCATGCAGCTAAGGCACCCCAAATCTTATTAATTCAAATGTTGAGAGCAT
TGAAGCCATAAAGACAATAAGAATACTGAAACACCATGTATCTGCTTTCATTTAAATAGCCAAACAATTCTGTATTTTC
CAAGTGGGCTTCCTTAATATACATATTTTAAACCTTGTAAGGTAATTCTCCAGAGAAATATGGAGGTCTAAAAGACAAA
GTAATTCCATTTATCACCTTAAATCTCATTTAATTAGGGAATAATTCTGATATATCAAGAAAGAAACTAATTACTGTCT
TCTAGATGCTTGTGCTTTTGTAAGAAACAAAAGAGCTCAAGCAAGTAGAAGCCTCAGGAAGAGAGCAGTATTACAGAGG
GACCACAGCAACAATGTTTTTTTTTTGTTTTTTTTGTTTTTTTTTTTGAGATGGAGTCTCACTCTGTCGCCAGGCTAGA
GTGCAGTGGTGTGATCTTGGCTCACTGCAACCTCTGCCTCCAGGGTTCAAGCGATTCTCCTGCCTCAGCCTCCTGAGTA
CTACCACACTCAGCTAATTTTTGTATTTTTAGTAGAGATGGGGTTTCACCATATTGTCCAGGATGGTCTCTATCTCTTG
ACCGCGTGATCCGCCCTCCTCAGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCGTCACGCCTGGCCAACAATCCTT
ATTAATATTAAAATTTAAAAATTGGCTTGAACTGGAGAACACTTCAAAGCTCATTTACCACAGAACTTTGTCATTTTTC
TCCTTATTTGACTCATCTCAGTTGGAAAGCACAGATGTTTTATGCGTCTGCCTTGCTCCCACTCTCCCTAAAATTTTAC
TTACCAGCTAAACCGCCAATCCTAATACATCCAACAATATTTTACCATGAAAATACATTCAATTTTTGTATTTAGATGC
ATACAAGTCTCCTGAAATTGTGAAATATTCCAACTGTACTTGGAAAGCTCTCTGAAGATCCCCCCCTCAAAAAAAAAAA
AAAGAAGATTATCTCTAGTGGTTATATTTTTTGAAAGGTTTATTGTTCTATTGAATATATATCTAGTTCTTTTTCATAA
AAATGAATATCCTGGCTTTAAGTAACTGTTTGCTAAGCACAGTGTGCACAGCTATGCACACACTGATATCACCATTGCC
AATTTTATTAAAAGAACCACAATACAGAGCAAAGAGAAAAAGAGAAGTGTCCCTATTAATGGTATTTCAAATGCGTATT
TAAACAGCTTATCTACTCCAAACTAATTTCTGATAGATTAAATAGCTGTATTCCAAATCTTACAAGATGCACATCTCTC
CTCTATTTCTTTCTCGGCTTGCTTCAGCTGAATAGCTCAAATTGTTTGGCACTGGTAAAGCATGAAAATGTGAGATAAA
AAAGGAAACGAAGCTACAGCCTGAGTGGCCTACAGGCCTTAGAAATGGCAACACTTTAAAATTCATTATATTTTACATT

Fig. 6.241

GCTTCAACAGTTACACATTTTTTTTTTTTTTTTTTTTGGCTCTTGATGATGTCAGAAGATTTATCTGGGATGTCTGT
CTCCACGGGTAAATAGTGACCGGGGTGAAAACTGAGGGAACTAGGGAGCACCTAGACCCCAAGCCTTAGTAGTCAGCTC
TGGAATGCTCCCTGCAGTGTGGGGTGTGAGTGTGGTGTCTCTGTGTCTCTGTGTACACACTGTGTGTCTGATGTGCAGA
GGGGAAGGCAGGGAAGAAATACTATGGCAGACAGTCACTTGTGGTAGCTCTCTAAAGGGATCTGGCACTTCCTGCCATT
TCATGGAAAAGAGGAATGAGAAGGAAATAAGCATTTGTTACATGCGGGATCTCACTGGATGCTTTCAGTGCTAGAAGGG
AGCTATTTCTCCTCCTAACGTCTGTAACTCACCAGATTTCACTAATTCAGAGGTTGCTTTGAAACTCAGAGTCAAATTC
ATAGCCAGGGACTAAGTCTTCATGATGTGCCTTTTTGTTTTAGCCTCCTTTCCGGCATGTTTTTTGTGTTGCTCTCCTT
CCTGATTACTTTTTATTAGTGCTATCTTAGTTTATGTATTTTTATAAACTGCCTTAAATGCTTTCTGGAACCACTGTGC
ATTTAATCAAATAGACTAATAACTAACTAGGAAAATGATAGGGCTGATAGCATCGTCTGACCCATGAGGAAGCTGAATT
TAAGTAGCTTGTCCAAGGTCACTCAGCAAGTCCCTTGTGCTGTGAGTCTGGTTCTTGGCTTTCAGTCAGTATTTTCAAG
TTTTACCTACTTATTTCCTCTTAACTGAACACGAAAAAAACCTCAAATGCTTATTTCTTTAGCTATTTCTATTTCTCTG
CAGTTAATGTCCTATCAACTTGAAATTCCTCCCCTGCCTTTCACTCCCAGTAGAAGTTTCGCTCACCTTTCCCAGGATG
CTTGAAATACCTTCTCATGAAGCATTTCTTATCCTGAAAAAGCATCATTGTTACATCTCTTCTTAGACGCTCCTTTGCC
TTCTGTTTTCAATCTAGAAATTTGTTTCTCCCCCATCTCCATACTGACTAGGATTTTGTTTGCTTGTTTCAGTTTAGAT
CACAGGTGTTAAAAAGATGATCTTACATATTTAAATGATGGACATATGATTCCTATTATCTTCTACTTCTATGCATTCC
TGATAGACAACTCTTAGGCTGGAAACTAAAACAAGAAGGCCTATTAACTATTTTTGCAAAATAAAATTGTATTCTTAAA
GTTAAGTTCTTGATGCAGGGAGAAAACATTTTATGATTTTCATTTTACTTCCCACAATAATACAAGCATGTCAAGTATT
GACCTACAATAAATGCTTAATAAAAACCTAGTATTTTTCAGTCACTTTAACAGGGCATTGTATATTTAATGCATTAACG
CTCCATAGGCCATGTCTCCTATGTACTTTGTATGCTCAGAAAGGGAAGTAATGTACACTGGTGGTTAAGAACATATTAA
CCTGAGTACATCTTTAAACCTCAGCTCCACTCCTTGCATGTTGTATGACATTGGCGAGTCATTTAACAGCTATGGGTCT
ACATTTCTTCACCTGTAAAATGGGGATAATAATAATGTCTATTTAATAAATGTATTGTGATAGTTAACTGAAATAAAAC
ATGTATAAAGCATGCAATAGGGCACATGGGAAGTATTTTATAAGTGTTGTATGTTATTATTAACCTGTAAAGAATTCAT
ACAAGAAGGCACAGAAAAACATCAATTGCAACTAAGATGAAAAGTTTGTTGCTGTTAGAGCAGGAGTAGTTAAGATGGT
ATGTATTTCAAATATCCAAAAGCTTCTTCTATTTCTGGAGAGCAACCATGGGAAGTCTATTGTGGCATTAGATAGTGCC
ACAGAGAAAAGACAACAGGATGGTGAGGACAGGAGTTGGGAGGGTGGAGCCAAGGAATCAAATAATGTGGTTTCCTAGA
TGACATTCTTTTCAGAAGCCCAGAGGTGCCACATCTATTACAAAGTCTCTAACCAAACCATATCCATGAACCTATACAA
GATAAATTTTAACAGAGTGCAGATTGTCTTTCACTCTACATCAAACTATAGAGTCCAGAAAAAATATTTTATATCATGA
TAGTGATAATAATTGAAGGAATCAGAAGGAGTTGATCATTCTCTACAAGCTTGTTGTCATGAGGAGGGAGGTGAAAAGC
ATTAAAAAAAAGCTTAAACCCTTTTCCCAATATTTCAAAGTAGCTTTGATGGTATTTAGATAGCAAACTCATTTTAAAG
AGAATAGGATTTTCACAAAACGGAAAAATCAAGCAGCTGGCATAGTAAGTTATCTGAATTTGATCTGAATTGACGTCAG
GGAGCTGGGAATGCCCCTGGCAATCCTGCATTCTCTCTCTTTGTGCAGTATTTTGACAGTAGTGAGAATGTCTGAGTGT
TAATCATTTTCTGACAGTGTAGGCTCTAATCTTATGCAAAATGAAAGCATTTAGAGATTTTACCTTCTTGGTTCCAATC
AGGGCATTTCTTCTAGAAAAACTATTCTGCAGTAAGATTGTGTATAACTTATTTTACATTTGTATATGTTTATATATAT
TTATATTTATATAATAAACCTAAAAATATGTAACTGCTAAGTTTGGTAGTAGCCTTTCTTCAAAGCATCATTCTTGAGA
AGAGAGTTTATTTTGTAAAACCTTACTGGTAGAGACATAAATCTAAAAAACAAAATTCAATCCAGACTTTTGTATCCAA
ATATGAATGTTAATTTCCTGGGTATATCTTTTTTTTAAAAACTTGCAGTGTGGGTATATAAGCAGGGCCAGATGTCTCTG
TGTTAATCATTTCTACTCTTTAATAAATAACGGTGGCGTACAGTGAAAATAAAGCCCAGATGGCTGACACATTGCACAA
ATCACTGGATGCACTGTATATTCATTTCATAGTTTCCTGAATACTAATAGATGATAGAGTCATCATCTTTTTATCTGTT
CCTCAGTCAAATAACAAGTAACTACTTACTGTGTCTTCTAAAAGCCACTGTGCTAGTGGCTAGGTAGGTTATAAAAACC
CACCAGATATTGCAGATAGTACCACAATATAATTTGCTTTAATCTCTATGACCTTCAGAATCTATTACATCCTAGTCTT
CCCTAGGAGACTGGGGTTTCTTGGAATTATTTTAAAAAAGTGATCCAAAACTGGATCTGATTTTGCCATGGGGATTGCT
TAACTAATTGGTTTATTAGCTTGAGTCTCATGCATCATGGTGGATATTACTGGTTGTCAAGTTGTGGTTGGTGAATCGT
AGACTTTTAGAACTCTCAGAGAAATTCAGAGTTGACCCACATTACATTTTACAGATGAGAAAATGTGAAACAAATGACT
AAATGGTTTCACTAGAGCCAGACAGTTACTGTCAGAATTGAAGCTTAAACTACAGGCTGCTAACTTGTAGTCTGCAGCT
TTTGCTAGTATGTATGTTACTTTGTCTCAGAAATGTAGTGAAATTAAATGTAGTGAGATTAAAATCGGTATCACAGGAA
TGAAGGTGCAGTAACTTTGGGTTTGCTGCTGCCATTGACTCAGGGTGGGATGAAAGAAGGGGAACGGACATCATTGCAC
CTGCTTCATTTGTTTGTTCTAGAAGGAAAATAAGGAAATGAGGTCTGGCTCCACACAGTGTTTCAGTGGGGGCTTTAAC
TGGTCTAGATTATCTAGAATTTTTCAATATACAGAACTTAATAGGCACAGACACTCAAATGATAGGGGAGTCAAGTATT
CACAAAGATATGACATTTACAGAGCCAGTCTGCAAAGATAAAGATATGCTAAGTGGTTGTCTGTAGACAATTATAGTCC
ATTACAAGTTGAGCATAAAAACATAAGCATTATTCATCAGATACTGAATCACCAGTTAGTGCTGGTATTTAGATGAAAA
CATTTGGCTTGGAGGGGAAGCCCCTCAAAAACCATAGTTTTGACTTGTTTCTAAGAACCTGCCTGTCATGGAAAAGCCT
AGACCCTAGTGGAATTCCCCAGGGATGTTTTACATAGTTGGGATTCTCAGTAGTTGATGATATTGGAAGCAGAACATA
ACCAGAGGAGCTGGGAGTCAGCCCTGCCCAGGTGGGGCCCAAGCAAAAACCATACTCTGCCTTTCCCCAAGTCACAATA
AATTGTGTTCTGCTAAGTTGTAGTTACACTGTCTCTTCAAACAGAGACCATAATAATCTTTGCTGCATTTATTCAGTTT
TATGTTTATGCTAGTGATGTTTGTCACTTAGTTAAAATTAGCTTTAATATGGAAGAAGAGGGTATACCTCTTTCTGGAA
ATGTAACACTCAGCCTTAAAGGTAAAGGGAGCAGCAAAGGTGTCCCTAAAAAGCAACTTGCATCCTGAGCACTGTGTGG
ATAGAGGCCACTGTTGCCAGACATCCAGCCTTAGCAGGTTGCAGCCTTAGCAGGTTGTGCTGTCTTTGTATGTGGTCAT
TTTGGTACCATCCAGAACCCCCACTTACTCTCCTGCTCCTCCACCACCACCTCCAGTCCCTGGTTGCAATGAGCCACAC
AAAACAGAGGAAAGTAAACGGGCATTACCTTAGTATCAGCAATGCTGGGATATAGTTCTGCTGGTAGCTCCTCCTAAAA
ATACACCCCTAAAAAATAAAATTGTAAGAAAAAAAGAGTTAAAAATAAAAAGTTTCAGTCTCCTTGCCCTGGGCAGGTC

Fig. 6.242

CTTGGAACTGTAGAGGATTTTAAAGGCTATGAAAATTATTTTTATGGAATTCCAGAGAGGGGGATGGGCTCAAGTTTA
TATGTGAGATACATATTTACTTATTTAATAGATTTGAAAATTTATTTCTATGTTTATTAGTCAGGGTTCTTCAAAGGAC
AGAACCTATATGATATATGCATACATAGAAAGAGATTTATTTAAGGAATTTACTCCCACAGCTACAGAGACTGAGAAG
TTCCAAGATCTGCAGCCAATAAGCTGGAGACCCAGGAGAGCTGCTGGTATAAGTTCCAGTCTGAAAGCTGGCAGGCTTG
ATACCCAAAAGGAGCAAATGTTTCAGTTCATGTCCAAAGGCAGGAAAAAACCAACCTCCCAGCTCAGGCAGGCAGGAGG
AATCCTCTCTTACTTGTGGAAGGTTCAGCCTTTATGTTCTATGCAGGCCTTCAGCTGATTGGATGAGGGCCATCCAAAT
GTAGGAGAGTAACCGCTTTCCTCAGTCTACCAGTTCAAATGTTACTCTTATCCAAAAACACCCTCACACACATACCCCA
GATGATGTTAATTAAATATCTGGGCACCCAGTGACCCAGTCAAATTGACACATAAAATCAATCATCCCACCATGTATAT
TTATTCATATGTAAAATAGTAGATTTATGTAGGAAATAGAAAAATGATGGTTATTATTAGAGAGGAGCATAAGAAGGAA
ATTTGTGATTTGAAGATTTAGAGTCCATTATTGCTAATGACCATTAAGCAAGAATCAAAAAATTTTGCCCTGTTATGAT
AATGATGTGTACACCATTCTAAAAATAATCCTTATTTACTAAGGCATCACAATAACTTCTATGGGTCCATTTCAGACAC
AACAAGGGCGAATCACCTTTTTCCTTTTATTTCTTTGACTTCTGTTGAATATTTTTTATGAAAAATCTTGAATTTCTAA
GGGCATATTCTTTTATCACTACAGGGATGATTTTGCCTGAATATCTGAAATAGCATTGCAAAATGATTTTCTTTAGCAC
TTTACAACTGTAAAAGAAGGTCATTTTAAAGGCAGTATTTAAAAGAACAATGCCACAATAAGTGGCTCTTCTCATTGCC
CTTACATTCTTTTAAAAAGAAGAGACCAGTAGACAATGGTTAAACCAGCATGTTTCAACAAACACATCATCACTTAATT
AATTGAAGCAACTTTCCAAAAGTATTAAGGAATTAAAATATGTAATGCTCTAGAATAGGAGAAGCCTAATAAGCCAAAT
AAGTTCAACTATGAAAAAATATCTGTCATTTTGTTAATTCACAAGCTGGAGAGGGTATGAATGTTAAGGGGATGTTGTA
GCTAGCCTAGAGACTTACTCTTAGGTCTAAGGCAGGTACTTAAAATGTGAGAGTTGAAAAGAAATTTTTTTTTATTATT
TTTCTTTTTTCCTGAAGAAGTGGGTTTTGTAAGCACAAAGGATGTAGAGAAAAACCATGCTTTTTGATTCAGACTGCAG
TGGGGAAGGTATGCAAATTAACTTATAATTTCTATGCCAAAGATTTTTTTTTGGCTCTTTCTCTAAATATTTTACTAAT
ATCTTACGGCATACAGATTGGTCTCCCAACTTGCAGGAGACATTTTTTGGAGGTTGTATTTTTAATTTTTTTTTCAATA
CTGAAAAATTTTATAGGGGAAATGAGAAGAGCCAGATGATGAATGGCTTCAACAAAGGGACTGTGGTCAATAATGACAG
TGATGGGAACAACGAAATGACCAAAGGTCTTGATTTCCAAGAAAAGTCAAATCATGAAGGCTTCATGTTGGAGGAGACC
ACAGAAGTGTGGAGACTCAGGCAGGTTCCGGGATTTTAAAACTCTACCGCTGGAGCAGCCTTTCCTTACCACCACCCAA
ATGCACCCATAGAGCAGGGAATAGGGGTCAGAAATTATGGAGATTTCCACTTGAAGGGTTCCATGGGTCTAATTCAACT
CCCATTTTAGAGATGAAGCAGGTGAGTCTCAGAGAAGTGAATGATATATTCAGGACATATGGCTAAGGGGTGACCAACT
GCAGACTAGGCTTCTTGACTCGAACTTTTTTTTTTTTTTGGACTACATTGTATTACTCCCCAGTCTATTAAAAAGTTTA
ACTGCCATATTGAACAAGCAAGACTCATACAGCAAAGTCAGAAAACATTTGCCTTTCCCTCCACTGTCATTAAAATCCA
ATAAAGAGTTAGGTCTTAGCATGCCAATGGGACTCTAAAAAGAAATCCTCTCTAGGATTTTTTGTCTCCCTTTGACCTC
TTTTAAAGGCTGTATGTGGGGTATAAGCTAACGGTCAGAATAGCTGCGCCTTTGCAAGTCCTACCAGATGTTGCAGCAA
CTCCAGAGTGTAGGAATATTTGCCATCTATTGTTTTGTCCTTGGCCTTGTTAGGACTTCTACTGCAAATAGAGACAAAG
AGCCTTCAGGAACATTCTGCTGTGCAAGTGGTCACCAAGTTCATGTGCATGACACTGCCCTGGTCATTGCTGTCCTGGT
TACTCTGCAAACACTAAAGCCGATTGGCCTTGACTTAAAATCCATTTCAAGGGAGGAGAATAACATAAATTGTTTTAAT
CAGGGCAAGTTTTATTGTAATAAAGTAAATGACACAAAGGCAGGAACTACACTGCCCTATTGGTTATTATCACCTGTCT
GGCACACAGTAACTGCTCAATAAATGAATGAGTGAACAGAAACCTATTAATTGGATCAAGTAAAAGAGACTTATTGGA
AAGATACAAAGTAATTTAAGAAAAATGTCATATTGGAAAATAATGCCTGGCTTCATGGGGTATTCCCATCCTGGCATAT
TGGACCCATTAACCTCTCAGTGAATCTCAGTGACCCAACATGGCCACATGCCATGATGATGTGACTACAGTGCCCATCG
TGAATGAAGGGAAGCAGAAGCACTCTTGAGTGGTCTGGGTTGGACCAGAACCTGGGTGTTGGGTGGTAGTGGGAAATAG
ATAAGGGAGGTAATCTGTGACATTGGCAGATGGCATTTTTATTAAATCTCAGACTATTCAGAGAGTACGTGGGAACATT
ATCTTCATTGTAATATGATCTTCTTGAAAGGATAGTTATTCAAATAAAAATATATACTTTCCATGTATATGAACAATAA
TGTTGCATTTATTCTAATGTTACATTTATTCTAATGTAAACTATTCTATCCTTTTTGATAACTTTGCAAACTGAAAACT
ATTACTGAACAGTTTGAATTAAAAAAAAAAGCTTGGAGTACTATAATATTCATGAACAAAAATCTTGGAGAATTTCTTC
TTTAATGAAGTTATTGAAATGCTCATGCCTATAAAATTTTTCAATATTGAAAAAAAATTAAAAATACAACCTCCAAAAA
ATGTCTCCTGTAAGTTGGGAGACCAAGAGACCAATCTGTATGCCGTAAGATATTAGTAAAATGTTTGGAGAAAGAGCCA
AAAAAAAATGCTTGGCATAGAAATTATAAGTTAATGTGCATACTCTCCCCACTGTAGTCTGAATTTACAAGATATATGC
CATGATTATTCTCTCAGAAGATTTTTTATGAGTTCAGTACTGTCTTGATTAAGCTTATGACTAAATAAACTTCTTTTCA
TGACATTGTCGAAGAGTATCAGTTTTCAGACAGTGAGAAAAGGACAAGCAGCTGGAATCAGCTGAGAACCCAACAATCT
ATTGTAAAAATACGGTTTATTTTACCACTCGGCATATGTATTCATACACATATATGTATATTCAACTGAGACAAAAGTT
TCACAAAATCCTGCTTACTCTTACTACATGTGATGATCTCTGATACATGTGATGATCTCTATTCTGTTTGTTTTAAAGT
TTGTCACAACACATGAAATTTGTTTCACAACCTTCCTGTTGGTCATGAGCTCTGTTTGAAATATGCAGACTCAAGGCAA
AAATGTAAATGGGAAATTTGGAATTATTATCCAGGTTGGAAGGATTAAAAAATAGAAAATACGTATGATTTCACCTTTC
TTTCTTCTGAGGCCAGATAAAGGTAACTAGTCTGAAATCTAGTTATTTATTTATCTGGAATTGTTTAGGGTTAACCATA
GCTAGTAAGGGTAGACTGTGGATGTAGTACAGTAGCTACTTAAAAGCTGTTATGTCATGAGCCTCCCAACCATGACGGT
GCTTAGGAACTCTCCAGGGAGCATTGTAAAGTATGCAAAAGTCCTGGAAACTCTAGGCCAAGTGATTTAGAATCTCTGA
GCATGGGGCCTGAGCATCAGTATTTTTAAGAAACTCCCCAGGTAATTGTAATATGAAGCTAGGACCCAAACCATCAATA
GCAACTCTGAGTAGATGCCTTTGCCTTGTGCACTGAATACTTTTGTCATGTTAACAATGCTTTTTTGTCATATTTTATG
ACGTGTTTCTTGTGTATCACCCAAAAGCAACAGATATTTTTGAATAACAGAGGTTACTATGAGCATACAGTTATGCACA
TCATTGAACCTCAAATTTTAAGATACTTATTACTAAAATGTTATACTGTGATTTATTGAAAATTTTATGAAGAATTCAT
TGACAGGAGCAGGTTATATGTTAAGTGCTACTTTTCTAGTTGAATGTGGCTCAGGAGAAATCTAGTTAACTAAGTCAAA
TAGATAGTTTTTAATACTTATATTTATTTAAATAGTAGACTTCCATAATCCTCAGTTATTTTATGTCTTCCAAAACCAA

Fig. 6. 243

AAATAATTTCTTTAATTTTGTCATAGATTTTAATTGAAATTGGTGAACATATGCACACATACACAAAAACTGTAGATTT
AGTGTCTGTGGTATGTAATTGATGAACTGTTTTCTAAAAGGATTTTGAACGTTTAGAAAACTAATTAAGATATTTAAAT
TATTGACAAATAGAGGATCTTTCTGTACCCAATTTAAAAAGAAGATACAATGATTTGTGGTTAGTGTATCCATTTTTCA
AACATAAACAGAAACTTCAGAAGTTCTTAAAAACAGGTTGTCCTTTTAGATAATTTCTACATTTCCTCTGAAATCTTAT
TTCTGAATTAAGTCTAGATGTTTACAATCTATCTGAAAAAAGTAATGTTGTTATAAACCTCAAATCCGTGCTCATACAA
ATTCTTACCATTTCCAATTAGATAATACTCTGGCAAGAATTACTAATGCCTGAAAAAATAGATGTAAATATTCCCATAT
GATGGTAATTATTAAATGTTATCAACTAAGTATAGTGTTTGTTTAATTTAACTTTATTTAGATACAGGGGGCAC
ATGTGCAGGTTTGTTACATGGGTATATTGTATGATGCTGAGATTTGGAGTATGGACTCTGTCACCCAGATAGTGAGCAT
AGCATCCAATAAGTAGTTTTCCCACCCAAACTCTCCTCCCTCCCTTCCCCTTCTAGTAGTCTGCAGTATCTGTTGTTCC
CATGTTTCCGTCCATGTGTACTCGGTGTTTAGCTCCCACTTACAAGTGAGAGCGTGTGGTATTTGGTTTTATGTTCCAG
CATTAATTTGCTTAGGATTATGGCCTCCAGTTGCATCCATGTTGCTGCAGAGGACATGATTTTGCTCTTTTTTATGGCT
GCATAGTATTTCATGGTGTATTTGTACCACATTTTCTTTATCCAAACCACCACTGATAGGGTGGGTTTCATGTCTTTGC
TATTGTGAACAGTGTGGAGATGAACATATGAGTGCATGTGTCTTTTTGGTGGAATGATTTGTATTCTTTGGGCATATAC
CCAGTAATGGGATTGCTAGGTTGAATGGTACCTCTGTTTTAAGTTCTTTGAGAAATCTCCAAACTACTTTTCACAGTGG
CTGAAGTAATTTACATGTCCACCAACAGCGTATAAGCAGTCAATTTCCTCCACAATCCTGCCAGTATCTGTTGTTTTTT
AACTTTTTAATAATAGCCTAAATGTAGTATTTTAAAATATCTAAGAGTTTCTTACCTGAACCTAGCCAATGTATTTTTT
CATCTTATTAAATTACATACACTTTTATTTTAGCCCTCATTGATTTATTAGGTATATAAGTAAGCATATTTTGTAGAGA
TTCTTTAATTTTTTTTTTTTTTTTTTTATTATACTCTAAGTTTTAGGGTACATGTGCACATTGTGCAGGTTAGTTAAT
ATTTTATAGCACTAATATGTCCTTTTGTTTTTAAGAATAAAATTTATAAATTGTTTTATAAGAGTAAAATCAATGTAA
TAGCTGCTGCTGCTCAGTACAATTAAACAAGTTACAGAAATCCTTTACTCAGTATCACTACCAAATTTTTTCTAATATT
CTCATTTTAATTTTTTGTAGGTGGTTTTTACAGTTGCCTTTATATATTCTGTCAATTGTGAATAGAAATTCAAATTCTT
GAATTTGATAATTGTGTCATTTTTGTGTTCCCTAGCTTTTATTTGTAGACTGTTGGTCCTATTGTTCTTTTTCATGTGT
TACTATTATCTCTGGATATTTTCTTATAAATTATTGAAACTTATGAGATTCAATTACCTTCCAAAGTGATTTATTGTTA
CGTGCTGTAATGCTATTAATAAGTGTAGTTTGCAAGCAATGTTTCAAAATTTTGTCTACTTAAAATTTAGAACAGGATA
TTTATTTTGTAATTTTTGGATAGATAGAAAATCTCCTTTCTGCCATCATGAAACTGATAAATGAGTTATAGGGATGGGA
GGAGATGGACATTTGACCACATGCAATGCAGTTTTCCAAAGTATATAACCATAATCTATATTAAAGGTAAATGCAGTGT
CAGATGGGCATTACTTTATGCAAGATTGTGTTGCTCATGAACTTACCAGCCAAAGGAGACTATCTCTCACTAAGGCTTA
TGTAAAACTGCCAGGAGAGAATAATTACAGTGGGAGTAAATTTGAACACATGCAGTAGAATGTCTAAAAGTTAAGCTTC
TCAGAGAAAATGTACATATGCTTGGATTTTACAAATGATGTATTTCCAGGTATTCACTAGGCCTGCTAAAATAAGTTAG
CATTTTTTAAAGATAAATATGTTACTGAAATATATCCTACATAAAGTACCAAATTATAGGTTTACAGTTTGATGAATTC
CTGCAAAGTGAACACATCTATGTAATCTCCATCCTGATCAGGAAATAGAACATTGTCAATTCTCCCAGAAGTCCCTGGT
ACCATACCCCAGTCCCCTCCCACCACATCACATAAGATTAGGTTTTGTCTGTTTTGTTTTTTACCATTTTGTGTTCTT
GGTGAGAGTGCTGCTTTTCCATAAGCAATTTCACTGTATCCAGAAACAGAACTCAGTTAAATTTTAAGGCCACTATTTT
CTTCATAAAATAGAGGGAAGGGAGAATAGGTTGGTGGGAGGAAACTCGTGCTTCTGATTCTTTCCCTAGCCTATGATCA
ACATAATCATGCCTTAAGAACCTTGCTTTCTGTCTTTGAGTGACATGCTTGGAAAAGTTTTGAAAACATCAGTTTGTG
TTCTTTACATATTCATTGTATAACTCTATTTTATATGGTATTAATAATAAAATGGAAACAAACAGAATTGTGGAGGGGA
AAAAAAGAGAAATTTTAAAGACAAGCCTGCCCTCTAATTTCCTTTTTGCCATGAGTAGTCAGTGGGAAGACTCTGGGAG
CTTGGGGACATTGAGGCATACAGCAGTCAACAAGCCTGAGCCCTACAACGACTGAGTCTGGAAAGTTTAGATTCTGAAA
GCCTAAAAAAGCACTGTGTAAGAGGCTAAGCCAACCTTTTTGTTGTTGTTAATCTTTTTACTGGGAGACAAGAATGGAC
CTTAGGGATAGGGTAAAAAACTGAGAGCCCCCAGCCCCTTTAAGATATTTTCTCTAAACCTCTTAAAGTTAACTCTGAT
TAATTTCTTGGTTAGAATTCAAGTTATGGTTCCTGCTCTGCAAAACTAATAGGTAGTTTAAGGTGGGAAAAGTAAAAAT
TCTTGCCATCTCCTACATTGACTTGAGAGTGAAAGTAAGACTACAGATTTGTTATCCCCAAGACAGTTGTAGAAAACTG
AGATTATGCTTTATAATACCCTATTTCAAGTGGGGTTAATATATAACCATGGTTCTTAGCCTTATTTGGGGTTAGAGAC
CCCTTTGAGAATCTGAATAAAGCTATATGTCTTCTCTGAAAGGTGTACCTAGGTACACATAATTTAGCCACTGGCCTTG
TCCGTTTGCAGGCCCCGTAAGCTAATGCACAGTTCCCTCTGAGGATCCCTCAGCTTTATTCTAAAGTCTAAAATTCTCT
AACGGTTGCCAGTGGAAATAATCCAGGAGTGATAGAAGTATGGTCCTTATTACAGTTATCTAGGAAGGAGACCACACTG
TCTTCATCCTTTACCCTTCCTTGGTTTCACCTTCTTCCTTCATGACTTGAAGATTCCTTTATTTTCTCTTACTTCCAAC
TCAAAATTATATTGGTTCATGCTGGTTTCCTTTGTTTAACAGAAATATTCCTTTTGCAAAATGGTAAACACCTTTTTAG
GGGGAAAAAAAAACCCAACCAACACTGTTCCTACAGTTGTAGATAGTAATTAAGTCAAACCCTTAGTTGGTTTTCATTTT
TGAATTTAATACTGCAAAAAATTAACTTTTTTGCATAAAACTTTTTATGACTTCAGTTATTAATATTTTATTATTTTGA
TTAATTTTATGTAAGTCAAGATAGTCTAGGTTATTCTGCAGTAATCCAAAATCTAAGTGGCTTAATATAACAAATTTTA
TTTCTTGTTCTCTTCATACATACCCAAGAGGGATTGGCAAGAGGCTCTACTTATTGTAGTAAACCTGGGACCCAAGATG
ATTGATGCTTTATCTCAACTCAGGCTTCTTCACCAGGGAAAAATGATGTAATGAATCCGTCACAGGTTGCCTGAACTTT
CACCTAGAAGTGACACATACCACTTTTGCTTAAAATAATTGGTCAAAGTATATCCCATGTTCATGTAGGATACCAAAGG
GGAGGCTAAGGGCAATCTTACCATGTGACCAGAAAAAGGAAAGCTAGAAGTATTTGGTAGACACATTCACTCTTTTCTG
TACTCCTTTCCAAATTCTCCTAACTTTTTGGAGATTTGATTGATGTTAAGCAGAAAAAGAGGGTTTGAGTCTTATTTTT
GGTGAAAGAAAATATTCTTGGTTAACTTTGTCATATAATATATCTGAACTTAAAATAAGTACACAGTGGCATATAATGA
ACTTAAAAGAAATAAAATACTAGCAGGAATGTAAAAAACCTGAACATAACACTGAATTGCTCTTGTTAGTGTTATGCCA
CTTAGTTCCATCTACAGTCTAGCCCTTGTAATAACACACACACCGTGATTTTAGTTAAATAGGAACATGCCCCTTTCTG
TTTCATTTAAAATTCTAGTCAACACAAATTCTTCTAGAAAAATGAATTAAGAATGAGTACTATTCCCAGAGTACATTCT

Fig. 6.249

GGTTTGTCTATAAATTCTAAGCTAAGCTTTATATGGGAACTGTCAAAGGCACAGTTGCAATGTTGCTGCCTTTTTTATT
CAGGAGAACTGACTTCTGTTGTCCCACTTGGACTGATATGTTGAGTGATGAAAAGCTGGGCAAATCTCCTCAGTCACTT
TCTTCTGATAGTTTACTTTATGGCTTCCTTAGTGGTCTGCATCATTCTTTCAGCCTGACCATTTGCTTGAGGGTGATGA
AGAGTAATGATGACAGGTTAGATGAGCTCTAGCTTCACAAATTTCTTAAATGCATCTGAAACAAATGCAGATTCATTGT
CAGGAATAATAACATCTGGGAATCTGGACATTGAAAATCATTGGTACAGGGATGTTCTTGTTGAAGTAGAGACACTATA
AGGCATTTTGAGATGGTAGCCACAACAAACAAGAAATTCTCCTCCTTGAAAAATAAAAGAATTATTGATCAAATCTTCC
TGATCATTTTTTATAGGAAGGAAAAGTACCTTTGGTGGATTATATGGAGTGGCTTGGTGTTGTCTACAGTCTTCTAAAT
GACATAATTAAGTACAGGCTTTAGATATAATTATTAGTGTATATATCATTTTAAAATTCCCAGGTGAATTGTAAACATT
ATTGTAATAATGTGATAAGTTATGTGATTTCTCTATTCTGGCCACTCGAAATTAAGAATTAAAGCTTTGATTAGAAATT
AGAGTCTAAACTATATATTTGAGAGGCATTAGTATAGTTGAAACTATGAGAGTATTTTGGTTTACTGAGCTAGTTTATG
TGAGAAAGCAAAAGACCTGAAACAGTCTTTTTTCAGTATGTATTGTATTCTAGACTTTTTTCTAGGTCATTCTTTCTTT
CCATATTTTCTCTTTTTTTTTTTTTTTTTTTTTCATGAGAAAGCAGAATGATTCAAACTGGGTATAACTATATTAAAGGC
CATGAACCTAGCTTTGTCTGACAATAAAAGTCATGCTCTTATTGCTAGATTAAACTTCCTCCTGTTTATAGTGTCTGAT
GGGATTAAAGAGAGAGGATCTTATGTAAGTAAGAAAGTAATCTTTTTCCTACAATCTGCTTTTAGCCCTTACTTTCCTC
CTATGTTGAGAGCATTTCTAGTCCAAAGTTCTTTTTTTTAAGTCATTAAGATGTATTATTCAATCTCAAGTAACTTTTA
ATCCCTTTGTAAAAATATTAGCTCTTTAATTAGGCTTGGTGTGCCTAGCCAGCTGTCTCCAGCATAATTTTGGGTAGGC
ATTAGTATGTTAATATGGAACTGGCTTATAATCTTAATTTCAAAGCATATTGGAAGGCAAGTTTTATGAATAGTATAAA
GAGACTTATATGACCTGTCAAATCAATTCATAAAATTCCTATTTTGAAGGGGAAATTAAAAGTCAAGGTAATGGAAATG
TTATATTCGTATATTCGCAGGAGATGAATGACATGGATAGGATGTCTTTGAAAGTTAATGAGAAAGCTACTTGCCAGGC
AAGTTGTTCAAGAGCAATGTTAGCAAATGAAATGGGTTGCTGCCTTTGGGGAAATGATTTATGATGATGAAAACCATCT
GGGTTTAGGAGGTTGGTTGATGTGACATACCTCTCTTCCAGCCTTTCCACTCTCTCTTCTTTCCTGTGCCCAGCATAAA
ATCAGTCTTTGCGTATAAAGAGCGCTATGCAAGTTGGCTTCCAGTCATACGAATATGTGGTATGATTTCAAATAAGATT
GTCATTGGATGCTTTGGTCAGCAAGCATATTTACTTTAGATTTGTATTTACTCTTTGTAGTTGAACTGGCTAAACTCTA
ACAAAGTATGCTTCATTTGACTTTAATAAAATATTATATTTCCAAGACCGTATGTAGTAATAGCAGAAGGTGTGATTTC
TCTTTTTGCATAAATTGGCTCTTCCCTTCTCTTTCTCTGTGTTTTTCACATCTCCCTACTGTCATATATATTCTGACCT
GCCTCTGGTAGGGCTATTTATGTCATATCCATAATTGTTATATATTAACCATTTGAATGTGGAATAAGGCAAGTACAGT
TTAATTTTTTATATAAAAAATATGGAATATACTGTAAATGAGTTCTCTTAATCACGGAGTAGCTACCTCTGGAAGCTG
TAACTGTTGGTCTTGGGCTGTAATATATTATACTACAACCTTAAAAATGAAGAAAACAAAAAGACAACACTCTATGTGC
TGCTAGACAAAGGCCACAGTTAAAGCCAAACTGCTTGACACTTTATATTCTTCAGGCCTTTTTAACGACCTTCCCTTTG
GGTGATGCATTTTGTAGCTGTTGTCACTTGTACAGCAGAGAGGGAAAAGGAAATGAATAATCTGATTTGAAGGGGTGTA
GAGGGATGTGAGTCTTAGGAAGATCCTTAGGATTTACAGAAGCTATAAAGCTATTTGTGCTGCTTTGTGGTGCTTTGCA
CCCTGTGTCAGTTAATAGTTTATCTTTACCCCATTTTATGCTCTAAGATATAGATGATGTTTTAAAAATCATTCTCATA
GTCTTCTTTCCTCAAGCTCCACCCCAAGTTTTCTAGCTCCTGACCAGCACTGTTAGCTTTTTTGATTTAATCTTCACAG
TCTTCTCATTTATGAAATACAAAATGAATGCTATGTCAAGACAGACTTGGAAAAATCTTTTAAAATGGCAATACAGGCT
CACCTGCAATTAAAGTCATTCCATTCCATTTAGTGTCTTTTTCTTTTTCTTTTTGAGACAGGGCCTCACTCTATTGCCC
AGGCTGGAGTGCAGTGGCAGGATCATGGCTCACTGTAGCCTTGACTTCCTGGGCTCAAGCAGTCCTCCTGCCTCTGCCT
CCCTAGTAGCTATGACCACAGATGCATGCCACCATTCCTGGCTATGTATTTTTTAATTTTTAGTAGAGACAGGGTCTCA
ATATGTGGCCTAACCTGGTCTCAAACTGCTGGGCTTAAGCAATCCTCCCACCTCAGCCTCCCAGAGTGCTGGGATTTTG
GGATCCCAGGTATGAGCCATTGCACTCGGCTCCATTTAGCTTCTGATGAGTGTAAATATTAACTTTGAGGTCAGTTCAC
AGTTTGCTGATATTAGGACTGATTTTTTTAAGTTATATTCATTTATAGTGGAGCACCTTAGGAAAAAACAAATCTC
TTTATATATAGAATTAAATTTGTGAACTTTTCTGAAGTACATTTTTATCCTTTTAAATATGCCACAACATCTATCCTGT
AAGTAAAATAAATATTTCTAAATGTCTAAAGCAGAGAAATATTATAAATTAATTAAAATATTTCCTGAAAAACAAAGTA
AATCAATTTCTCAATTTACATTATTCAGATAAAAATAGCTCAAGAACTAGCTAAACAGTATTAGTGAAATTGAAGGTCA
AGAGATGCTAGAAATTAGTCAACTCAGGTTTATGGAAGATCTTACTATATACTCTGTAATATTCAAAACTATTTCTCGG
CTTAATTCACTGATGAAATTATGGTATTTTGGTAGTTGGAATTACCAACTGTCTGCAACAGCATGAACTGACAAGAAAA
TAGTGCCCTCTATGAGTAGGAGTACAGAATGTTATCTTATTAACAAGAACCAGGGGACAGTAGGAATGGACAACAGCAT
TGGTTAGTGGCACAGACCAATTCAAATAATATATTTTGTGTGATTTTTTTTTTCCTTACCAGCAGTTTGTTGGTGAGGC
AGAATTAAATAGGGAAGAGAAATGCACATTCCCTATCTCTGTCCCTGCAGTTTCATTAAATTCTGACCAAATTATGTGA
CTCAGCATTCTCAGAGAATAGTCTCTGACAGGTAGCACTTACAGGAGACAGACCCACACCTTCTAGCATGTGATTCTTA
AAACTCTGTGTGCAGACTGGTGCCCAGCTAACCACATAAAATTTACCAGGGGTGCTTATTAAAAATGGAAATTCCAAAA
TCTTACCTCCAGAGATGCTATCTTGGTGGGCCCTGAGAACATCATGTTTTTGACGAAGTCGCCCAATGCCTTTCTGGCG
TGGTCAAAAGCAAGAAGCACAATGCCTTTTTGTGCTTCTTGGTTTTGACCAAGTCACCCAGATGATTGTGGTGCAATGC
CTTTTTGTGCTTCTGCCTTTAGCGTTGGTTTGCCCAGCCAGCACCAGATCAGGCAGCTCTATTAGCTGCTGCTATCAGC
ACGTGGATGTTCTCTCCTCTTCGTAAATGAGATCTCCTCTACTCTCCCAAAAGTCCCATATTCTTTTGGGACTCTTTCT
TTTGTTAGCTCTTGCTTGTCAAGAATGGAATGGGGAAATCATTTCCTATGGAGGAAGTTTTTCTTTGGCTTTTGGTAAC
TGACAGAGTGAACAGATTTCTTCGCTGGGTATGCACTGTGCCTTCTCCCACCTATTCCAGAGCTGTCACTCAGGAGCAC
TGTTCAAGGCCATCCCCTGCCTTCCTTGTGTAGAGGGCTTTCTGTGACCAGCAGACAGTCAAAGACATCGTATCTATAC
ACAGATGGCACATTGATGAAAACTACTGATGTTTGCCACTTATTATTTATTCTTTTTTCCTAAATATTTACAAAAATTA
CTTTTCTCTTTTGTATGCCACATCTGACTATGTGTGTTAGTTTTGTTTTTTGTTTGTTTGTTTGTTTGTTTTTTGAGA
TGGAGTCTCACTCTGTCAACCAGGCTGGAGTGCGGTGGCGTGATCTCAGCTCACTGCAAGGTCCGTCTCCTTGGTTCAT

Fig. 6.245

GCCATTCTCCTGCCTCAACCTCCCAAGTAGCTGGGACTACAGGCACCCGCTACCACGCCCTGCTAATTTTTTTGTATTT
TTAGTAGAGACAGAGTTTCACTGTGTTAGCCAGGACGGTCTCGATCTCCTGACCTCGTGATCCACCCACCTCTGCCTCC
CAAAGTGCTGGGATTACAAGCATGAGCCACCGCACCTGGCCGTGTGTTAGTTTTTATATCTATGTTAGTACCGCAAAAA
TGTCTAAGAAAGCAGACCCTTCTACCAACACTACAATGTCTCATATTGCAGGAGGCCTCATAGTTAGGAAGACAACTGT
TAGCAAAGCCCTTGTTTCTCTCATGAGCCACCAGTGTCTGGCATATCTCAATGCACTCTTCATGATGCTCTAAGCTCTA
AGTTAGGCCTATGGTTGCATTGAAGCTCTAAGTTAGGCCTATGATTAAAGTCTTCTGGCTCATAATGATAAAAGCCATT
ATTGTAGGCAGTTAGAACCTGTTGAAGGACAGAGACGTGATGGATTACAGTCTGAGATAATGTAAGTTGTTTAAAAAAG
TGAAAATAAAAGAAAATCAAAACTTTGCTTTACCTATTCATTTTTAAAATAACCAAGGCATACCCCTTTTGCTGTCTTA
AGTTTCAGACAAGGGTGCAACTTCTACAGTCATTCCTTGGTGGCTTTACATGCTTTATTTGCCATGGGCCATTAGGTGC
TATGGGTGTTTTCATCCCCACTTTGGTGCTTTGTCAAGACATCAAGCATCTCCATGAATATACTTTAATCTTTCCCTTT
TTTGTGTTTTGTTTTTTAGGTAAGTACTTTTGGTATTCTTCTTCCTTAATGCTGAAAGAAAATGCAGCTGCCTGATGTA
GAACAAATGGCTTTTGAAAGCAAAATCCAAAAGATAAAAAATAATGTGAACAGTAAAGAATGACACCATACCAGATACT
GGTAAGAATTTTAAGTGGCATTCAAACACCCCTCTCTTTTTGGAGAGAGGACTAACAGTACAGGAAGATGCGGGGAGGG
TGGGGAGGGATTGTTGCCGTGCAAGTAAAAAGAAAATTACAGACAGTGTTCATGAAATATTCATTTACACCTGCTTATT
GGTTAGATGAACAGCCTTTGGTTCTGAGCTGGCTCACCATTCCCAGGCTGGAAATTATTCACTTAAATGCAGCTTTTAA
ACATTTTCTTAAAATCCTCAATGGAAACAGATGTGCACATGCTGAGGGAACTTTTTTTTGATCTTTTTCTAGAAGAGGG
TTAAATTAGAAAAAAAAACCAGTATTTTTAATATTTAATTTCATGTGTATAGCTATGAAGCTATATACTTAAATGCTTT
GTAACATATGATCATGAATATATGTATAAACTTCACCCAGAAAAATCCATAAAGCTTTTGACAATAAATGTGTATAATC
TGGATAAATGAAATACCAGTGAACTCAAACATAATTTATTTCATGTTTTATGTCTTCTCTTTCTCATTTTCCATGTACA
ATTCCTGTGTACATATGAAATAACATACAAAATACAATTGTACGTATGCTTCAATGGCATTTTGCCCAAATTCATAGTC
CTTTTTTATATGGCCGTGGATTTCGAGATTTAAACATATATGGTAAATAGTATGTTTCTGTTAACTTCAGCATAGCCCT
TTTAGTAACAAGACATTGTTTACTATAAATTGAGATTATCTATCCAATGTGAGTAAATATATTATTAAAAATACATTAA
CATTTAAGATGAACAAATAGCAAAGGTTAAAAGGTTTCAGAGACCATTACCTGTTACTAAATCATTTCTCTCTCCCATT
TACTAGTCTTATCTCATTGAGTTTCCTGCTGTCCTAGAATGTCATCCCTCTGTCTCTGCTTTATTTAGTTTTTGTCTAT
ATTCAACTCAGACCCTATATCATGTACAAAGCTTTCCTCAAGTCTTTGAACACAGACTGGTTTATTCCTGCCCTAAAAT
CATTTTTTAATAGAATCCATGTGTTAATTTTCTGAGGCTGCCATAACAAAGTGCCACAGACTGCAAGCGTAAATAGTAG
GAATTGATTTACTGATAGTTCTGGAGGCTGGAAGTCTGAAGTCAAGAGAGCAGGGTTGGTTTCTTCTGAGGCCTCTCTC
CTCAGCTTGTAGATGGCTGACTTCTCTCTATTCCTTCACGGGGTCTTTCCTCTGTATGTGTCTGTGTCCTTAGCTCCTC
TTATAACAACGTCACATTTGATTAGGGCCCACACTTATGACCTCAACTTAATCACCTCCTTTAAACCCTGTCTCCAAAT
ATAGTCATATTCTGAGGTACGAGGACTTCAACGTACAAATTTTGGAGGTATATGTACGAGGACTTCAATGTATGAATTT
TGGGTATAGGATTCACCCCGTAACAGCCCATGTTAGTTTCTCACTTCATTATTCTCTGATTCTTCCATGTATATTGGTT
CTATCTTCCCTAACAAGTTCATCAAGGATAAGGATTGATCATATTTCAAGTTTTGTTTACTTCATTCACAGTTCCTAGA
GGGCTGGCATATAATATTAAATGCTACATATTTGTTGTTTGAAATTACTGGAAAAAGTAGCATAACAGGACCAAATGAG
AGCCTCTTTTTCCAATTATTGCTGACTTTAGCTCCCTTATCTGGACAGAAAAAAACAGTAGCAGAGGTTTGAGTCAGGC
AGTGGTCAAATGAACTGTCTCTGCTTTCTTTCTGGGAGGCCCAACAGCATTCTCGTCAGCAGGAGCATTCTGGCGAAAG
GAAATGCTGATCTCTGCAAATGGGCAAAAGTGTAAAGAGCATTGAACCCAGCCTCATACCACAGAAAACAATTTGGGCT
TGTGGAAAAATAATTACCCAGTGAAGAGTCTTCTGAACTAGAGGCAGGTTTTTGGAGGGGGAAATCATAAACACATTTGT
GGTTGCAAGGTAGCAGATTGGGTGAGCTGAAACTAAAACAAATTTTGGTTTAAGAAATTGTATTTTAAGTTCTGAAGTC
ATACTTAATTCTTAATAATTCTAATTGTACACACGCTAATTTAAATGGAAGATGTTTACTTCATTAAAATTTCAACACT
AAAATGCTGGTTCAGTTTGTTGTATTACTTTCTTCAGGTTTTGTTATATTCTATTTTTCATAATTTCTAGAGCCAGCAT
TCAAAAGTAATTTCTGTGCTTCAAAATAGGATCATCCTAAATTCAAATTATATGTAAATGTCATTGAATGCAGATATAA
ACATGGTGCCACAATTTTATAGAAAATTCTAAAAAAACAAAACAAAACAGAATAACCATGTTGCTCTCGTACCAAACGT
GTCTTTGGGTGGGTTACTAAGTCCACCTGAGTCTGAGATTCTCCATCTGTAAAAAAGGAATCAGAATACCTACTTTGGG
CAGTTGCTGATATTAAATTTAAATAAGCAAAGCAGTTAGCCCAGTCATGTCAAAATAGTTGAGCCCAATGAATGGTCTT
TTTCTTTATCTCTCTTCAGGTTGAATTTTGCACAGTAGATAATCCATCTATCACAGAGGTGTGCAGATGTGACTGATTC
ATTGATTGAAACATTCATTGCCCCATTTAAACAATGTTTAGGTATTATTATCCACTGTATCCTGGTTTCATGCTGGATG
TTGGGTAAATAATGATGAGAAGAAACAGACAACTCCAACTTTAATGGAGAAATTGACATTAAAAGTCTAAAAATATGTA
TAAAATTTTAAAAAAATCAGTGTTGTGTAGTAAATATACACAGTACCAGGAGATTTTATAACAGGGAGGGTATGTGTAAA
ATGTCAGGAAATATTTCTCCTAGGATGTAACAATGAGGAGAGTTTCAGAGTATGCATGTGTGCACATATGTGTATGTGC
ACATGTATGGATATGTGTTCCAAAAGTAATAGTGGTTAAGGTGGTGATGGTAGTGGTGGTGTAGGTGGTGATGGTGGTA
GGAGAAGCAAGAGAATGAAATAAATAAAAAGATGAGTGTCTGGGAACAGCATGTGCAAAGTCCTGATGTAGGAAACAGT
ACTGAATGGACAGTACGGTTTACCAAGGGAGGGCTGGTGAGGCTGAGATGAAGAGAGCTAACAGGAAGCCAGTAACTTG
AGATGAGGCTAGAGAGGAGAGCAGAGGCCAACTGGAGCAAAACCTTATAGACATATTAGGTCTTCTACCCTAAGAACAA
TGGGAAGCCACCTAATTTTAAGAGAAAGCTTAATGGATGTGTGTGATTCAGTGCAGGGACTGCTACCGCTCTTAATCCT
CGAAATATCCTGCTAACCAGGTTGGCTTTAGTGGGTGGAAAAGTGAGGCCCATACATATTCAAATTTGTATTTTGAAAA
GATTTTTTTTTTGTCCTCCAATGCTTTTGCCAGAATATAGAAATTCAAAGTATGTGTATTTATAGCAAATACGTAGATG
TTTTTCACCTTATAGGTGTGTTTTTATCACATTATTTTTGCACATATGATTCCTGCATGACCCGAGTGAAGGGGTGGGT
TGCCCCTCCACACCTGTGGGTGTTTCTCATTAGGTGGAACGAGAGACTTGGAAAAGAAAAAGACACAGAGACAAAGTAT
AGAGAAAGAAATAAGGGGACCCAGGGAACCAGCGTTCAGCGTATGGAGGATCCCGCCAGCCTCTGAGTTCCCTTAGTAT
TTATTGATCATTCGTGGGTGTTTCTCTGAGAGGGGGATGTGTCAGGGTCACAAGGCAATAGTGGGGAGAGGGTCAGCAG

Fig. 6.246

ACAAACACGTGAACAAAGGTCTTTGCATCATAGACAAGGTAAAGAATCAAGTGCTGTGCTTTTAGATATGCATACACAT
AAACATCTCAATGCTTTACAAAGCAGTATTGCTGCCCGCATGTCCCACCTCCAGCCTTAAGGCGGTTTTTCCCTATCTC
AGTAGATGGAACGTACAATCGGGTTTTATAGTGAGACATTCCATTGCCCAGGGAGGGGCAGGAGACAGATGCCTTCCTC
TTGTCTCAACTGCAAGAGGCATGCCTTCCTCTTATACTAATCCTCCTCAGCACAGACCCTTTACGGGTGTCGGGCTGGG
GGACGGTCAGGTCTTTCCCTTCCCACGAGGCCATATTTCAGACTATCACATGGGGAGAAACCTTGAACAATACCTGGCT
TTCCTAGGCAGAGGTCCCTGCAGCCTTCCGCAGTTTTTGTGTCCCTGGGTACTTGAGATTAGGGAGTGGTGATGACTCT
TAAGGAGCATGCTGCCTTCAAGCATCTGTTTAACAAAGCACATCTTGCACAACCCTTAATCCATTCAACCCTGAGTTTG
ACACAGCACATATTTCAGAGAGCACGGGGTTGGGGTAAGGTCACAGATTAACAGAATCTCAAGGCAGAAGAATTTTTC
TTAGTGCAGAACAAAATGGAGTCTCCTATGTCTACTTCTTTCTACACAGACACAGTGACAATCTGATCTCTCTTGCTTT
TCCCCACACCCGAGATCTTTTAATATTCTAACATACTCTTATGTTCTAAATCAGTGACACTTAGAAAGAAATGTTGACT
TGAACATCCAAGTACAGGTGCTAATTTGACCTAGCAGAAACATTTTTTAAGGAAATCTCTCTGCACTGAGCACTTGCAT
TATCTAGCAATGGAAAATTCAAACAATAGAATGATTATCATAAATTCCTTTGAATACCTTTGTTAGCAGAGATGAAACC
TTGGCCACCTGGCTTTAAGGGAAAGCTTAATGAGCATGTGATTCAGTGCGGGGACTGTTACCTCTCTTAATCCTAGAAA
CATCATGGGAACCAGGTTTGCATCAGTAATGAATTTTTATAATGTGAATCTTTGATTTTCTTTCGCTGGTAAGAAACCT
TATTTGGAGATGCTATGTATGTGAGTTTAATCTCATTTTCCATTCCTTCTTGAAGCTTTCTAGGTTAACCACCTGAAAC
AGTGGTTACTATAATCAGTAAAGATTTATAACCAAAGTATAAGGAATTGGGGAATTTCCATATGGTGTGTCCTCACAAA
CAAACGTCATGTTTCAATATGATATGAATGCATCTCCATCCAAATTATTATTTTAACTGTATATTTTTCCCTCAGTCAG
CAATTTATGTAACACATATATTTCATTTCATCCAACTCCTAATAAGAGACCCCTAAATTAACCTTGAACTATGATTTAC
ACCTTCTCAATATACAGTCAATAATTGAATTTAATGACTAACCAAGGACATTTTAGTCATTGCAACTGCTTACAAGATT
ATATGTAAAGGATTCAGGAATAAATAGAGGGGTCTCTCAGTATGAAGTTTAAATAAATACTTAATGATAAAAGAAAAAT
TTGTCTGCAGTTTTTTTTTTTACAATTAACTTTTTACAAGTTATTATCCCCTTAGGCTCATTCCATTCTGCTCCCTTTG
TTTTGAAACACTGTTATGACATACTACTGTCAGTAATGGAATGTCAGAAAATAGTACATATGAAAGACACAGTTCATTC
TACTGTTAAATATTACATCATTGAAGGGTTTAAATCCTAAGACGTATCTTTGATTTACCAGCCCAGCCCAACTTCCTAT
TTGCTCTCTGCTCCATTTAGTAGATTTCATGCTGGTTGCTGGACTAAACAAGTCAAACACCTGCAAGGGCCCTCCATCT
GTGGCCAGAAAAGTGTTGCTGGTGCTATATTTTTGATGTTTAGGAAGAAATATTGATCTGCTTAACTAAGATGGTCATA
AGATAATATGGGGTTGTACTCATCTGATTCTCACAAAACCCCAGGGTGCTCAGAACTATACTGATGTGTTGGAGATGCT
ACTTAGGAAATTAGAGGACCAGCATGCATGTCCTTTGGAATGATGTATGCCACCCTATCATCTGCTTGGCCAACAACTT
GAGCCAAGACACACCTGGGGTATCTTGGTACTACCTAGAGACCCTAGCTAATTTTGCCAGGGTGGATTGGTAGAATCCA
AGGAAATAGTTTTGCAAGTGACACAATTGGTGGATGATATAATAAGATAATGAAGACTAAAATAATTTGAAGAAGGGAA
ATGGAGATAATTTAGGCTAAGTTGTTCTATTTGCTATTCTTAGAAGTGTTTTCTTCACATTTAGAAGAAGAACAATTGA
TTATAAAATCACTGCTTTGATGCATTAATTTGATCATTCTAAACAGGTGATGAATATTGTCTTATGTTATTTGCCTCCA
TTACTTAATCTGACTATCATAGAATAGCTAAGAATACTTCTTAAGAATGAGAGTTTGCAACTACCAGTCACATAGGCCA
GTATCTGTTAACAAAATGCTAGTAATTTTGTTCATTAAATTTTAAACATTAAATCTATTATTGCATTAAGACCTATTAA
AATGGACAATAAGTAAGGGCCAGATATATCATGAGTAGAAGGAGTCCCTTTCTACTGAGAGCCTATGGAAAGGACAACT
AGATTCCAGAAAAATCTGTTCAACTTCCAGGATGGCATACTAGGAGAAATAAATTGGGGGTCTAAAGAGTAATAAGCAG
GAAAAAAATCTGGTTTTCTTTGAGGCAATGATTAGTTGAAGCCTACACAAATAAACCAATTACAACATTTGACTGAAC
TGAGAATAATTACACTGGTAGTCAACTCCTGGGGAAAAATTATGAAGTTCAGGCTGTAAGCTGTCTAGGCTTTTATTAA
CTTGCATTGTTCTTAACTGATTACAGGCAAAAAGGTCAAAACATTTTGGCCTACCTAGGTAGCCAGATGGTCTAGAGAT
AATTTCTTAATTACCAAATGACTGTGTTTTATAGTGTCCCTTAGGAAACCAAGTTTTAAAACTGTGTCTAAAGAGAACC
TGATTTAATTTTTTGATGTTTCTTTTATTTTTGCTTGATTATATATTATAATCATTTTGTAAAAAAAAAATCCAAACACT
ACAGAAATATAACTTGGATGTTTATAATCTTCGCTTCTCTCTTAGATAACTATTTCTAAGAGTTTTTGTATACATATTT
AGATTTTTGATACATGTAAATATATATAATCTTTTTTACTAAAATGGTAATTTACAACATGCTTTTAAACAAACTTTTT
TTTTTACCTAAAATTTCTTAGCTATTTATGTCAGTACATGTTGCTCTATGAAGTTGTAAACAGAACAAAGCAGCGTGCT
CCCCAAGAGGACTCTTAGATATTTGAAAGTAGCCCATAATGGTAAAGTAAATTCATTCCTGACTTTGCTTGAGGAAACT
AACATCCTCTCCATCCTGCCTTGAGGACAAGTGTGTTCCTTCATGGCTGACACATATCTTGGCAGAGCACATGTGCTGC
AACAGCACACAGTATGGGGTAGGAACAGGATTTGAGTGATTTACTAATCAAGTGTTGGCTAGAAGAGAGGAGACTTGTA
CCACCCCGACCCTGCATCATGCCTCTTGCTCTCCTCTTTAGGGTGAATGTAAAGGGGAATCTGCCCAGTTGGGGTACAG
ATAAACCTTTTGGTTACCAGACTGTTGGGGTTTAGATGTCAACTCTTTATAGGAATTGTCTAGGAAAGTCAGCTGTCCA
GGCTTGGAGACCTTAAGGAAGCATGGAAAGCTGCAGCTCCCTTTTTCCAGGAAAAGGCAGTCACCCGTCTTCTTGGAAG
CTGTATTTCAGGGAGGCCTCTCCAGATGGGCTGGGGGACACTGCCAACTGTTAGCATATTGTCCAGACGACCCAGCATG
AGCTATCTAGGTCATGTTCAGACAGTACCACTCATGGTGTTCTCTTGCTTAAATCATTGTTCCTGAGTAGCCTTGAATA
GTAACAAATGTGATATCTTGACATCATCTGGTGGTTGGGTGACAACTGTTTAATTTTCTAACACAGTTGGTTTCTGCAA
TGCCTTTTCCCAAGTAATTTAGTATTGTCTTATCCTGCTATGTCTTCCACAAAGGGAAGATGATAAAATCTTTTTAATT
AGCATAATGTTTGTCTACTTTAATTTTACATTAAAAATTTGTTATACTTTTATTAAAATACTTTCACAGTAAAGTTTTA
ATCCATTTTCCTATGGATTTTTCATTTTGTAATATTTCTTTCCCATTTATAATCATATAACATATACATTTAATAAAAG
TATATACAATATATATCAAGCATATATGGTATATATACTATAATTTTGTCTGTTTTCTACTTTCTTTCTACTTATGTCT
ATTTTCTGTATTTTTTCCATATGGACATCATTTTTCACATTTAATGTCTTCTTAACATTACAGGGCAGTTCTAATTGTT
AGAAGGCCTCCTTATACTGATGGCTAGTTTGACTCATTATAAAGTCAGTTATTGTTCTTGGTTTTATGTCTTAACAAGG
CATCCCCTCCTCGAACCTTAGAGGAATTGATATCTGACTTCACATGCTCTAGGGGATGCCATGTAAAATTTTGTAGAAA
TGTTTAGTATTCTGGCATGTGTGTCTCTAACTTTGTCAGATGATTAGAGATCTGTGATTAGTTAACAACCACACAGGAC

Fig. 6.247

TGAATTAGCTTCCTTCCGTAACTAAAAGAATTGAACAGATTGAGTAAATTAAGTGGATGCCTCATTAGCTCCACAAAGT
TTATTAGAATTAGAGTCAAAATCTAATACAGGGCTTTGGACTACTAATATCTGCTAGCTACCTTTGGGATGATTTCAGT
ATCATAGGATCATCTGACCAAACAAGCTGTCTCAAATTCCTGTTAGAGTGAAACCTTGGCTGGACATTAGCTTCACCTG
GGTAATATTAAAATACTGATACCTGGCCCCAGCCTGGAGAGATTTTGATTCTATTAAATTGCCAGAGTTAGGGTTCAAG
GCAAGGTACATCCAGAGTTGACAACCACTGGATTTGAAGCCAAAATGTATAGAATGTGAAACAGGTAAGCACTGTTGGA
ACTACCGAGATAGAGACAAACACATTCCAGGCACTAGCCTCTGCTTCTGTCTTTTCTGATGTAAGAATATTTCGCCTCT
CAGAAAGTTGCTTCCCAAATGAATACTTTTAAAAATTAACCTGGTTTTTTCAGTACATAAGACAGGGTAAGGAGAAAAA
GTTCACCTGGTTTTTAAAAACACTATTGTTTAAACTTTAACAGAATTATCTTCTCAAAATACTTAGAAATGGAGTAAAT
GTTTCTGCTTTGATAACACTGAAACCAAAGCTAGAGAGTACAGTTAAAAGGGCCATTAAAAACAGTTTTTATTCTATAA
AAATAAATTAATCATCGAATATTCATTATAAATTCAATCATGAAGGAAAATACACATTAAATTATTTATACTAAGATAA
ATATAAACCTCTATTGGCAAACAACTTCGTAGTTAATTTTTCTAATTTACCACTTTCTGCATCTCATGCAAATTATGTC
TTCTTGCATTGCCAATAAAATATGAGATTGGGGAAGGATGCTGCAATATCCATGAGAAAGTTTCATGTAAGTGCAAGCA
ATCAGATTTCATTGCAGATCCAGAGTAGTAACACTGACAGAACTATGTCAGTTAAGCTTTCTGCATTATTTTTATGCGT
TGTCATTTTCTTTTGGCAGAGGAGAGATTGAGGATTTACCTGGTCCAGAAATCGTTGTAGGTTAACAAGGTACCAATCT
GGGTTTGTTTTTATCCCCTTGCTTAACCAATCGTACAGTTAATTCCCAAAATGTGTTATTTTTTAACATGCAAAGCAGT
TCAACAACGATAGAAGGTGTAGGGATTCCAGCCACAGACAGAGCCTGAGAGAACAAACAAAGCAGATTCAGAAAGCAGG
CAAGTAGCGCCTACTTTGTTTCAGTGGTATGTCCTCTGCAGTTCAAAATCCTTCAGTATCTCTTAATTAATTCATAGAC
TATTTCCAGTGAGGTTTCACTGAGAATTCCTTAATGTCAAGAGCTCTCTCTGTATCTTAAGCAGTTAGTGTCATTGAAA
TTTACTTATGCAATGATTCTTTCACCAAATATGTATTGAAGGCTTATGATGTGCAAGACATGTCCCAAGTTCTGGTAAT
ACAATGATGAACAAAATTAATAGTTTCTTTCTACACAGTTTTTGGTTTATCAAATTTATTACATGTTTAATAAATGTTC
ATTAAGTGCATAAATAGTAAAAGAATCAAAGATGTGATTTCAGCACTATGTATCAAAACCACAGAATGGCTGAGTGTTC
TTTTTAAATCCATGTATCATAGTGTATTAGAAGGCAAAATAATAAGAAAGCAGATCAGAAGTCAATATGGTCCAGTAAC
AAGAATAAGGAGTCAGATTAGAGTCACATTAACGGTTCACATTTTCCTAGCTGTGGGACTGTAGGTCGTTATTTTCTTG
TCTTATTTTGTCTTTCTGTTTTTCTTTCTTTCTTTTCTTTTTCTTTTTTTTTAGACAGAGTTTCACTCTTGTTGCCCAG
GCTGGAATGCAATGGCACAAACTCAGCTCACTGCAAACTCCGTTTCCTGGGTTCAAGCGATTTTCCTGCCTCAGCCTCC
CAAAGTAGCTGGGATTACAAGCGCCCACCACCATGCCCAGCCATTTTTTATTTTGTATTTTTACTTGAGATGGGGTTTCA
CCATGTTGGCCAGGCTGGTCTTGAGCTTCTGACCTCAGGTGATCCACCTGCCTCGGCCTCCCAAAGTGCTGGGATTACA
GACGTGAATTCTATAGGTCTCATTTGCACCATCTGCAAATGTGAACAATGGTATTGTGTTCATTTACCCATTCAGCCAA
CTTTTCCTGAACATCTCTTAAGTATAGGGTTCAGAGATATGGTAGGTTGGGTTTCAGATGACCAAAATAAAGTGAATAT
TCCAATAAAGTGAGTCACACACATTTTGGTTTTCCAGTACATACAAAAGTTATGTTTACACTATAGTCTATTAAGTATT
CAATAGCATGTCTAGAAGACAACGTGCATACCTTAATTTTAAAATATTGCCTTGCTAAAAAGTGCTTATGATCATCTGA
GCCTTCAGCAAGTAGTAATCTTTTTGCTGGTGGGAAGTCTTGCCTTGACGTTGATGGCTACTGATTGATCAGGGTGGCG
GTTGCTGAAGGTCAGAGAAGCTGTAGCAATTTCTTAAAACCAGGCAACAATAAAGTTTACCACATTTATTGACTTTTCT
CTTCATAAAAGACTTCTCTGCAACATGTAATATATACTGTTTGATAGGATTTTACCGAATGTAGAACTTTCAAAATTGGAG
ACAATCCTCTGAAACCCAACTGCTGCTGTATCAGCTAAGTTTATATAATATTTTAAATCTTTTATTGTCATTTCAACAA
TTTTTATAGCATCTTTACCATTAGTAGATTTCATCTTGAGAAACCACTTTCTTTGCTCATCTATAAGAAGTAACTGCTC
ATCTCTTTGTTGCTGAGATTGCAGCAATTCAGTCACATCTTCAGGCTCCACTTCCAATGCTTGTTCTCTTGCTATTTCT
ACCATATCTGCAGTTAATTCCTTCACTTGAACCCTTCAAAGTTATCCATGAGGGTTGGAATCAACTTTTCTCAAACTCC
TGGTAATGTTGATATTTTGACCTCCTCCCATGAATCATGAATGTTCTTAATGGCATCTAGAATGGTGACTCCTATCCAG
ATTTTTAATTTTCTTTATCCATATACATCAGAAGAATCACTGTAGAAAGTAGCCTTCCCAAATGTATTTCTTAAATAAT
AAGACTTGAAATACTCTTTGAATCATGGCTGCAGAAAGAATGTTGTGTTAAGCATAAAAACAACATGAATCTTGTGTAT
TGTATTAGTCTGTTTTCATGCTGTTGATAAAGAAATACCCGAGACTGGGAAGAAAAAGAGGTTTAATGGACTCAGCTCC
ACATGGCTAGGAAGGACTCACAGTCATGGCGGAGGGCAAGGAGGAGCAAGTCACATCTTACATGGATGGCAGCAAGCAA
AGAGAGAGCTTGTGCAGGGAAACTCCCATTTTTAAAGCCATCAGATCTTATGAGACTCATTTACTATCAGGAGAATAGC
ACAGGAAAGAGCTGCCCCCATAATTGAATCACCTCCCACTGGGTTTCCCCCACGACACATGGGAATTGTTGGAGTTATA
ATTCAGGATGAGATTTGGATGGGGACACAGCCAAACCATATCATTCCACCCCTGGTACCTCCCAAATCTCATATCCTCA
CATTTCAAAACCAATCATGCCTCCCCAACAGTCTCCCAAAGTCTTAACTCATTTCAGCATTATCTCAAAAGTCCACAGT
CCTACATCTCATCTGAGACAAGGGGAGTCCCTTCTACCTATGAGCCTGTAAAATCAAAAGTAAGTTAGTTACTTCCTAG
ATACAATGGGGGTACAGGCATTGGGTAAATACCATTCCAAATGGAAGAAATTGGCCAAAACAAAGGGGCCATAGGCCCC
ATGCAAGTCCAAAATCCAGCAGGGCAGTCAAATCTTAAAGCTCCAAAATGATCTCCTTTAACTCCATGTCTCACATTTG
GGTCATGTTAACGCAAAGGGTGGGTTCCCATGGTCTTGGGCGGCTCCACCCCTGTGGCTCTGCAGGGTGCAGCCTCCTT
CCTGGCTGTTTTCACAGGCTGGTGTTGAGTGTCTGCTGCTTTTCCACACATGGCGCAAACTGTCAGTGGACCTACCATT
CTGGCATCTGGAGGATGGTAGCCCTCTTCTAACAGCTCCACTAGACAGTGCCCTAGTAGGGACTCTGTGTGGGGGCTCC
AACCCCACATTTCCCTTCCACAGTGCCATAGCAGAGGTTCTCCATGAGGGCCCTGCCACTGCAGCAAACTTTTGCCTGA
GCATCCTGGCATTTCCATACATCCTATGAAATCTAGGCAGAGGTTCCCAAACCTCAATTCTTGACTTCTGTGCACCTGC
AGGCTCAACACCACATGGAAGTTGCCAAGCTTGGGGTTTGCACCCTCTGAATCCATGGCCTGAGCTGTACCTTGGCCAC
TTTTAGTCACAGCTGAAGTGGCTGGGACACAGGGCACCAAGTCCCTAGCCTGTACACAGCATGGTGACCCTGGGCCTGA
CCCATGAAACCATTTTTTTCCTCCTAGGCCTCCAGGCCTGTGATGAGAGGGGCTGCCATGAAGACCTCAGACATGCTCT
GGAGACATTTTCCTCGTTGTCTTGGGGTTAACAATTGGTTCCCCGTTACTTGTGCAGATTTCTGCAGCTGGCTTGAATT
TCTCCACAGAAAATGGGATTTTCTTTTCTATCGCATTGTCAGGCTGCAAATTTTCCAAACTTTTGTGCTCTGCTTCCCT

Fig. 6.248

TATAAAACTGAATGCCTTTAACGGCACCCAAGTCACCTCTTGAATGCTTTGCTGCTTAGAAATTTCTTCCACCAAATAC
CCTAAGTCACCTCCCTCAAGTTCAAAGTTCCACAGATCTCTAGGGCAGGGGTAAAATGCCAGCAGTCTGTTTGCTAAAA
CATAACAAGAGTCACTTTTGCTCCAGTTCCCAAAAAGTTCCTCATCTCCATCTGAGACCACCTCAGCCTGGACCTTATT
GTTCATATCACTGTCAGCATTTTTGTCAAAGCCACTCAACATGTCTCTAGGAAGTTTCAAACTTTCCCACATTTTCCTG
TCTTCTTCTAAGCCCTCCTAACTGTTCCAACCTCTGCCTGTTATCCAGTTCCAAAGTCACTTCCACACTTTCAGGTATC
TTTTCGGCACTGCACCACTCTACTGGTACCAGTTTACTCTATTAGTCTGTTTTCATGCTCCTGATAAAGACATACCTGA
GACTGGGGAGAAAAAGAGGTTTAATAGGCTTACAATTCCACAGGGCTGGGGAGGCCTCACAATCATGGCGGAAGGCTAG
GAGGAGCAAGTCACGTCTTACATGGATGGCGGCAGGCAAAGAGAGAGCTTATGCAGGGAAACTTCTGTTTTTAAAACCA
TCAGATTTTGTAAGACTCATTTACTATCATGAGAATGCTGCAGGAAAGACCTGTCCCCCATAATTCAATCACCTCCTAC
CAGGTTTCTCCCACGACATGTGGGAATTGTGGGAGTTACAATCAAGATGAGATTTGGGTGGCGACACAGCCAAACCATA
TCATGTATCCATCAGAACTCTTGGATGACCAGGTGCACTGTCAATGAGCAGTAATATATTTTTAAAAATCTTTATATAA
GAGCAGTAGTTCTCAACAGTGTGCTTAAAATATCTAGTAAATCATGCTGTCAACAGATGTGCTGCCATCTAGGCTTTGC
TGTTTCAGGCACAAGCACAGGCAGAATAGATTTGGTGTAATTCTGAATGGCCCCAGGATTATTAGACTGGTAAATGAAC
ATTGGCTTCAACTTAAAGCCCTCAGCTGCATTAGCCCCTAACAAGAGGATCAGCCTGTCTTTTGAATCTTTGAAGCCAA
ACATTGACTTATTCTTTCTAGTTGTGAAAGTGCTAAATGGCATCTTCTTCCAATAAAAGTTTGTTTTGTCTACATTTGA
AATTTGTTGTTTAATGTAGTTTCAATGATCTTCTGGATAACTTCCTATAGCTTTGATATCAGCACTTGCTGCTTCACTT
TGCATTTTTGTGTTGTGGAGATGGCATTTTCCTTAAACCTCATGAGACAGTCTCTGCTGGCTTCAACCTTTTCTTCTGC
AGCTTCCTCATCTCTATCAATCTTTATAGAATTGAAGAGAGTTAAGGCCTTGTTCTGAATTAGGCTTTTCTTAAGGGAA
TGTTGTGGCTGGTTTGATCTTCTATCCAGACTACTCAAACTTTCTCCACTTCAGCAACAAGGCTGTTTCAATTTCTTAT
CATTTGTATTCACTGGAGTAGCACTTTTTATTTCCTTCAAGAATATTACTTTTGCATTCACAACTTGGCTGTTTGGTAC
AAGAGGCCTAGCTTTCTGTCTGTCTTGACTTTTGACATGCCTTACTAAGCAAGCTTAATCTTTTCTAGCTTTTTATTTA
AAGTAAGAGATGTGCTGCTCTTCACCTCACTTGAACACTTAGAGGTCATTGTATTAATTGACCTAATCTCAATATTGCT
GTGTCTCAGGGATGGGGAGGACTGAGGAGAAAGAGAGAGATAGGGAATGGCCAGTTGGTGGAGCAGTCAGAACACCCAT
TAATTGAGTTTGCCATCTTATATAGGCATGGCTTATGGTACTCCTAAACAATTACAATAGTAACATCAACAATCAGCAA
TTACAGATCACCATAATAGGTATTAAAATAATTTTAAAAGTTTGAAATATTGCAAGAATTATCAAAATGTGATACAGAG
ACATGAAGTGAGCACATGCTGTTAGAAAAAATGGTACCCATAGACTTGCTCTACACAAGGTTGCCACAAACCATTTTGTT
AAAAAAAAAAAAAAAAGCCATCTCTGCAAAGCACAACAAAACAAAGCACAATAAAATGAGATATGCCTGTTTCAGTCACT
TTGCTATTTAAAAGAGAAAATCTGTTAAGCCATAGTCCTTGTCCTCATGATTCTTACAGTTTGGACTGGAAGAAAATCT
TTAGGAGTAAAGACATTAAATGTGATGAATGTTTTTGTGTTGGCCTTTTACCTATTTATTCTCAGACCACATATTGCCC
TTTCTCTGCCCTTTATAGTTGGAGGCTACGCTCTGAAGGCTGTGGTCTCAAGACTTCCATGTCCTTTGTTAGATAGATG
TAGCACATTGGAGGCACTGGTGGACATTTGGGGAGAGGCAGAAAGAGAGAAGCCAGAGTGTTTTACTCTCTCTACCTGA
GGCAGCACCTCAGGCAGTAGCTGTGTCTCCTCCATGGCTTCACCCTTAGCTAGGTGACCCTAATCCTTGCATACATCAG
CCCTCCTTTTTAGCTCTAGTCCAGGGGCGGTAGTTGCTTCCTGTTGTTTCTAACCCCTAAGTTGCCTCACAGTCCCCTA
TTTGGCATTTCAACTCTTCCATCACCAGTGCAATGAATCAGATCTATTAAATACACTACTTTTAAAATGCATAGAGTGT
TTCTTTTAGCTTAGTCGGAAGCTGTTTGATAAAGCCTTGATAGGAGTGGCAGAGGCGGATCTTATGTTAGAAGTAGTCA
ATGAAGGTTTACTGAGAAAGTAAAATTTAGGCTAAAACCTCAAGTGTGAATATAAATGTATCAATGGAGAGGGGAAGAA
TATTCTAGATCAGAAGTGTCCAATCTTCTGTCTTCCCTGGGCCACAATGGAAGAATTGTCTTGGGCTACACAGAAAATA
CACTAACAATAGCTGATGAACTAAAAAAAAGAATCACAAACAAAAAATCTCAATGTTTTAAGAAAGTTTACCAGTTTGT
GTTGGGCCACATTCAAGGCCGTCCTGGGCCTCATGGATTGGACAAGGTTTTTCTAGATCATGTGCAATGGGAAGGAAAA
TGAGGCATATTTTAGAAACTAAAGATGTAGACAACTGGAATGTGACATACAAGAGAAAGAAGGTCAAGAATGTTTGAGG
GCTGTCAAGCTCATTGGAAGACATTACAGTGGAATGACATGGGCATTTGTGTTTTTTAAAGTCAGTGGCTGCATTGTAT
AGAATTACTTGGGATGCAAGCAGGGAACCATTTAGAAGATTATTACAGACAGCGGTGTTGGTATGGAGCAGAATGATAG
CAGAGGCAATGGAGGAAAGTGAGCTTATCTGAGAGATAGAGGTAGGAGGTGGAGTCTGCATGTCTTGGTAATTGAGAGA
CTCTGTGAAACAAGATTGAGGAAAGGGTTAGGATTATTTTCAGGATTCAAAACAGAGCAACTGGGTAGCTGAGGTTCTA
ATCACAGTGAGAAGGAATATTGGAGAAGGAAGAGTTCCATGGTTGAACTTCAGGTATATGTCGGTTATCCCCAGGGAGA
GCTGTCCAGGAGTCAGGTGCGCTGTATGTGTCTGGAGCTCAGGAGGCAGATGCAGACCAAAGAAATTGATGGGGAGCTA
TCCATCTACAGATGGTCATAGAAGTTATTTGAGTCAATAAAATCAACTAAAGGGGGTGCAAGATTAGGAGAACAAGAGA
GTCCTGTCTCAAGCCTAAGAACTGCCAATATTTGAAGACAAAGCTGAAATGAAAGACATGAACAGAGACTTAAGAAGAA
AACCAAGAAAGTTAGGTGCTATGGAAGCCAAAGGAAAGGAGTGTTTCAGAAAGGAGGGAGTGGCCAATAGCTTCAGAAA
TGTTCATTGGTTTAGTGAAACACAAGTCAGTTGGTGACCCAATGGGAGAAATTTCCATATAGTAGGAGCATAAACCAGA
TTGAAGTGGGTTGAGGTGTAAGTACAAAGGGAGAATCAAGATAGTGAATATAAACAAAATTATTTCAAGAAATTATGCT
CAGAGTGAGGAGGAGGTAAGAAGTATCTGGATAGGGAAGTAGGAATTGAGAGGGATCTTATTTTGTACAGTGAAAAATA
AGTGCTTATGGAAAAGATTTGGTAAAGAGGAGGAAAAGAGTAAGGGAAAAATGGATGAAGCTGCGTATCAGAGAATGTG
AGAAGGACAAAGAACCAAAGCACAGGTGGAAGGATTTGCCCGAGTTGGTAACAGGAGGGAAAATGGAAATGATGACTGT
GGGAGTAGATGTGTTTGTCATTTTGATGGCTGGACATGGAGAATGTTCCTTTTTGATGGTTACTATTTTCTCTTTGAGT
AGGAATATCATCTGCTGTGTGTGGGAAGTGGGGACTCAAGTATTTGAGAAGAAAGAAGAAGGACGTTTGCTGTAGTCTT
TGCAGAAAATGAAAGTGATTTGATTAATAGTTGTTAGAATTTAAAAATGTGTGCACAGTGTTTGGGTTAAAGTTGTTTT
TAAAAAACCAGCCACCTTGCCTTTTATTCTTTATGCTGTGAAACCTCTTTAGAGCACTCAGTCACCTTTTGGCCACTAG
ATGGACACAGTGTACTCAGTGCTAAACTGCTGACCCACCAGGTTCCTTTTGTTACCAGCCAATACTGACAGAGTGATTG
AGTTGTGAACTTATTGTTATGAATTGAAACTTATTTAGAGAAAAAATCTTAAATAACACATTCCATCTTACTTATAGT

Fig. 6:249

TCATAGGTCAGAGAAAGACTGTGGTGCTACAAAAACATTAGCCAATATATTATTTGCTTTCACGCTAAGTGTAATGTGT
GTAACATGCTATCTCTTTGAAATTTTTTGCCTTAAAAATGCTAATCAGTTGGCACAAGGCGATCATTTACATAGTCAGA
ATAGAGCTTTTGGTTTAGCATTTTATCTTAAAATAAGGCAGAAATGGCATTGCTCTGGATGTCAGTATGGTGCATTATA
ACCCAAGTGGTGGAAAAATAACTGCTAAATGGCAAACACATAGAAACTGAATTCTGCTAGTCAGCTTCCATTTGGTAGA
GATATGTGTGCCCTTGGGTAGCTGCAATGTTAGCTATTATTAATAGTTCAAATCTTTGCTTCATAAAAGTTCTGCATAT
AGTGTTGTACAAATTGAAGTGATTCAAGGAAATCATAGTTCTGTGGAGCTTCCTCCCTGTTTTGTAGTGGAGATTGGGA
ATGGGGGTGGACCATAAAGTAGGTGGTTTTTTTTTTCCTGCCACTCTTAACTAATTACACACCCTGCCATATCCCCCAC
CAACATAAGACTTCAGACTGAGAAAACCTACATAATTTAACCAATGTTAGAATATAGGCATTTTTAACGTGCTGAAAAC
AGTGTTGTTCTTTTGGTTCCTAAACTAAAATCATTTGATACATTTCTCTGTCCTATGAAGGAAGCCATGAATGCTATGA
GTAAAGATATTTGTGGCAGGTAAGAAGAGGGAGTTAAGTAAGGGAGTTTAATATGAAAAATTCATATAAAGGCTCCAAG
GTTAAATAAGGAATACTTTTGCACAATGGGTTCAAGGTTTTACTGGGTAGAGCATTTTTAAAGTTTTATAACGACGTTA
GAAGGAATCGATTTGGGAGAAAAACTATATCTGCTTAATGTGAGGGAGCACTGTGGAAAATTTCCAGCACAAACTTTTC
CTGGGCCTCAACATTTCTTGGTAATGAACCTAGATTTGGAGTGATCAAATAATTTGCTGTCTCAAGTAGTAAAAGGGGG
ACTATTACTAACTTCACAAGAAGACAGGCATAAACCCAGCAACATGTACAAAGCAGGATGATCTCAGGTAACTCAGGAA
GATGCTGGAACACTCTGGGTGAAGGGCATTAATGCTGTTCACAGTGGAACACAGGACTGCTAATGGTATTTTTATGCTT
TTATGCATCAAAAGCATTGTTCTTTGATTTGTAATCTCTCACATATGTGAAGCAGGGCCTTTCAATCTGGATTTGGGGT
CAGAAGACAACATGTGGATGGAGGCAGAAAATTATAACAGACTCACCTGGGGAGCAGTTTTTTGTTGTTGTTGATATT
CCCTAGCTGCTGGGAATGGTGGCTCACTCCTGTAATCCCAGTGCTTTGGGAGGCCAAGGCGGGAGGATCACTTGAGCCC
AGAAGTTCAAGACTAGCCTAGGCAACTTAGCAAGACCCCATCTCTACAAAATTTAAAAAAATATTAGCTGGGCATGGTG
GCATACACCTGTAGTATCAGCTACTCAGGAGGCTGAAATGGGAGGATCGTGTGAGTCCTGAAGTCAAGGTTGCAGCGAT
TGTGCCACTGCACTCTAGCCTGGATGTCCTTCCACCTCCCCCGCCAAAAAGGGATATTCCAAAACTACAACATTCTACT
ACATTATTCTACATTCTTCCTTTTTACTCTCCATATTGATACAGAAACAAAACAAAACACATTTGAGACTTACCACTGC
AAAAGAGTGTTCTTTGAATTGTGGCTGCAATTATTTCTGTTGCAAACTTTAGTGTATTATTGTTATAATGATACTTGAA
GTAATACCCAGATGTATTGAAAATTCAAAAGACTTCATTGCCAGCTCAACCTGCACTCTCAAGCACTGCTTACTAAGGG
AGTAACAATGGGAAGAGACAGGTGTGAGAACAGACCCCAGAGCCAGGGAAATGAACATGGAGAAGGGAAATAGGCAAAA
TCTCCTCATCAGTGTGGTTGAGGGAATATTGGGGCATGGCATGGAGAGTCCCACCTCACTTGGCAGCCAGAGAATCTTA
AAGCTTATTGTCAAAAACCTTATGAAAGGTTAGAGAAGGTACCATTTTATTTTACAAAATACTTTAGCCTTTACCAGCT
CAACATCCGTGTGTCAGCCTGCTTTGAATAAAGAAATACACGTCTTCTTAAAATCTGCCCCTGACTACGATGAGCTTCT
TTGTTTCAGCTTATTTTGACTAATTAGGCTGAGGTTACAAACCACCCTGATATTTCAGTTGCTACAGCCACAGTCTTAT
TTCTTGCTCTCATTACTTGTTCTTGGCTGGATGATATTGATATGTTCGTTTTGTTCTGGAACCAACCCTAAATGAGCTG
CCCATCCTGAGAAGGCAGAAGAAATTGGGAGATGGCAGGGGCACACAGTGATTTTTTAAAACTTCTGTTTAGAAATGCC
ACAGATCTCTTCCATGCACATGCCATTGGCCAAAGTGGGTTGCAAGATCAGCTTGGTGTCAGTGGGGCAGGAAGTATAA
TCCTGGCACAATAATGGGCTTGGAAAGCTGTTAAACATTTTTACAATAACACAATCAGATTCTTTCAAATTAATTACAA
AAGTACTTAAAGTTTTTTACATACATTCTGTGCACTGTCCCAAAGCTATATCTAATGTTACTTCCTCATTCCGATGAAT
TACTATTCCTTTTCTTCTTAGCTGTGTTTAAAAGCCCATACATCTATCCTGTGATAATTTGTACACTGTATTGTGCTTG
GTTTACTTGTCTCTCTCCTTCCCTCAGTGGTGGGCCCTTGGAGGGCAGGAGCAATGTGATATTCATCCATGAGACCCAA
GTGTGTGATTGGTGCACAATGGACACCCTAAAAAGTGTTTATTGATAATTAATGAATTAATAGCTAAATGAGGGAGTGT
TTTCTTTACCTTCCCTACACTCACCTTTTCTCCATTCCAGCAAGCAATCTTGCACATGGAGTAGAAATCACAGTGGAAT
CTTGAAGAATAACTAGAAGGTTACCAGATGAGAAAGTACAGGGAGGTAAATCAGGGAAGAACAGCTGATAGATTCAGTT
GTAGCCATGTTGAGTGAAGGTAAGATTCTTGGATTTTGCTTCATGAACTCGAAAGTCTACATAACATCAATCTTGGCCA
CTGCCAAGTCTGACCCATCTCACAGCACCAGAGGATTGGGGTAGTAAACTGCAGATGTAGCACCCACAGGCTGACCAGT
CTGACCCTCATTAGGTTCCCCAAAAATCAAATCTCTAATGCACCTGCATGGATGCTGCAAAGGAATGTGCACTAAAGGA
ATGTGAAAGCGATAACTATTTTTCATTATTTCTGATGAGACATTTTAGCAATTATGTTAAAATCTGCACAACCAAAAAG
TCTAAACAGAGCGTGAACCTCTGACATTGACTCTGGAAATTACACACATTTTGTTTTACTATTTTAAAAACACACATGA
ACCGAAGAGAAAAGAGGCAGAAAGACTGGCTAGAACACAGCAGAACTTACCCATTAATGTAATGGAGTTTGAGCCTTTC
TCAATGATGCCTGTGGGGAGCTCCGTACTAGTAATATCTCAAGGATATTGCCATTGTTCAAACATTTCAGGGATTCCCC
TCTTGAACTTACCTTCAAAAGAGCCTTTGCTACATGTTTTTGAAATTCATTGATGACAAATCTCCATCTGTTGAAGGTT
TATCTAGTTCTATGAAGCTGCCAAAAGTCCTTTGGCATTAAGCCTGATGATTAAAGTTGATGATCCAGTTAGCGAATGC
TATTTTGAGTCAAAATGAGAAGTAACTATAAAATTAAGAGGCAGTTTTCTTATGCACACTGGAAGTGCCCTGTAATGAT
AATTCCCAAAGAGAATGTCAAAAATGTCTTTAATCCTAATAGAATTCACTATATTTTTTTCATTGAAATAAATATTTAG
GAAACATTGGTTTGAATTTGCATATGGTATACATGTTTGAAGAATCACTCTTGTTACTATATAGGTAACACTTATAAGT
GTTAAAATTATCAAGTTACTTAAGTACTTATAATGAATATAAATAAAATGATCCATTGATATTTGTCTATATATTTTTA
TACATAAAAGATTGTATATGTTATATAATATATGTGTATACATATAGCACAATGACCAAATTAAATTGTCTTTGCAGCT
ATTTTTAATTAAAACATTTTCACATTACGCTTTCTTAAACAATTGCCTCTGTTATATCAGAAGCCAAAACTGGCAAATT
ATATTAGCTCAGTTATTTAGTTACTGGGGACTCTATCTTTAAACCAACCATGGGAATTCATTTATAGCTACTCAACACT
CAGGTATGTATGACCATGGGGCAGACAAAAGACTGCTTTAAAAATCACTGATGTGTATCATGCTTTTTCTTCTTCTTTA
GTATTTCTAGCCATCAAAAAGAAATTATATTGTGAGGCAGATGGCAGTAATATATTTTTCAAAAGTGAATTATATCCTG
TTTCCCCATATAGGTAGGTAAATAAATAAATAAATAAATTCTATATAAGCAACATGACATAATTCCCAGACTATGAATT
TCTGCTAATCTGAAGCATTTGATTAAGACTGGATTTAAACTATGCTTACAAGTTGCCGGAAACTACTCAAAAAGGCTAC
ATTCTGTTAACTGTGTTATTTTTGTCTGTATTATGTCAAATAATTTTGACTAAATCATTGGTATTATCAAGGTCATGTA

Fig. 6.250

GAAGTCTTCTTAAATTCTGATTAAATAATCGACTTTCTTTACAACTACAGACAAATTGCAACAGAATCTGTATTTTCAG
GCAGTTCAGCCTGCATAGGGTCAATTTAATACCATATAAATGTTGGGAACAGAATTATCAGAAACTTCAGATATGTCAC
CATAAGCCAGATGAACAATATATGTCAGTACCATTGGGGAGTATTTGCCAGCATAAACTGGATATGTTTCTTGAATGC
ATGAAAAATGTGGTACTGAATGATTCTTCCTTCACTAAAATTGACTTATTTATCTTGATTTAAATATAGGCATACATTG
GTAAATAAAACCTAGGTTTTTTCATAATATATTAGAGAATTTTTGATACATAACAAATGAGGTAATTCCAGATCGATTG
GAATTCAGGTTTAGTGCTTCGTAAAGAGTTGAAAATAGTTCCTGGTAGGTAAGTAAATTGTGGTGGGAAGGACAGGACA
TTCTCTAAAAGTGCTTGGTTTTAGAGATGTTTTGGTTAAGAGTTTGACCAGGTGGTAGCAGATTTACTTTTTCCTAACT
CAGTTTTACTTGAAAGGCCTTCAGATTAAATACTTACAGAACCAGGAAGAAATGTATCTGAGTTACAGAACTTGAATGG
GGATTGTCAAACTGGAGAATGCTTGCCCCATCTGAAGGAGATAGCTGGCAATATGTAGGGAGGGGAACTCTAGGTATTT
TTGTTTGTTTGTTTGTTTGTTTTTGAGGCGGACTCTCGCTGTCACCCAGGCTGGAGTGCAGTGGGGCGATCTCGGCTCA
CTGCAAGCTCCGCCTCCCAGGTTCATGCCATTCTCCTGCCTCAGCCTCCGGAGTAGCTGGGACTACAGGCACCTGACAT
CACGCCCGGCTAATTTTTTGTGTTTTTAGTAGAGACGGGGTTTCACCGTGTTAGCCAGGATGGTCTCGTTCTCCTGACC
TCGTGATCCGCCCGCCTCGGCCTCCCAAAGTGCTGAGATTACAGGCGTGAGCCACCGCGCCCGACTGGGAACTGAAGGT
TTTAAACCTCCTAAACATTCAAAAGAAGCCCAAATCTCAACTTTAATGTGACATTTTCTGTGTGCTTTAAATGTTGGAT
CAAAAGGAAAAACAAAATTAAAAATATGTTGGACAAACTCAGGCCTGCTGTCCATATTTGATCCAAGGAGGACCAATTT
ACCCACTCTATCCTACACCTTTCAGGTCATAGCATTTTCCTTTGTTATCTTTCGGCATTAATGTCATATTCCAATTTTT
CCATATCTATGAGCAAGGCCCAAGGTCTGTAGCCAAGCCCAGGGTTTGCATGTGATATCTTTAGAAAAACCCCAGAGAA
GCTTTCTCTTGTTTTCTCACTATGCTGTAAGTATGAATAGCCCAAAGCAAAAAAGACAAGTACCCTGACTATCATGATC
TTCTAAGTATTCATGGAGCTCGCTAAAATTATAGTTCCCTGTGAAGAGCGTGTCGTTGCAGAAAAGCACTGGAGAGTGG
GCTTAGATACCTTCCTGTTTGATCTCAATAGTTTAATGTTTACTAGCTCACTGAGAAGAGACTGCCACCTTAGTGTTAC
CCTCTTGTACCACCCTAAACAAGTCATTTATTTCTCTTGTTTTCTCTCTTTAAAAAAATTTCCATATGAAATTCTGTGA
TTTTTTTTCCCCTCATTACCTATTTTCTATCATCATTGTATCCAAAAGGTCAAGAGAGAGAAAAGGCCACTTCTCCATT
GACTGGTTATCTCTTAGACTGTATGACAGCAAAAATATAAGCAAGGGTTAAATTTCAAATGCATCCACTCTGCTCATAC
ACATTTGTGATTTAAAAAACACACTTCATTGAATAATTTAAAATATGGTTGTACCATCTGTTCTTGTGGGGATTAACAT
TGTTCATGATGGCAAAATAATCACGTTAAATAAATTCTAGATACTGCACTCTTATTATTAATAATAGCAATGATATTGT
TAGTTCAGATGACCCGGCCTTTTCTGTCTCCATATAATCACACTATTGATTTTCCAGTATTGGAAAGGAGAACGAGAGA
GTACATGCTTTTATTTCTAAATGGAACATGCTGTTCAGGAATTCTGCCATTTCTTTTATGGAAATAAAAAATAAAGTGC
AAACATATGCCATCTTTGAAGGTAACATTATGTAAGCCTTTGAGTATAACATTTGCTGTCTTTATCTATTTCTTTGTGT
CTATTCATAAGAAAAATGATCAGATTGTCAAATTCATATTCTAGAAACTACGCAATCAATTTTTTTTCAGGCATTCTGT
CGTCTGCCTGGAATGAGATTAGCAAAAGAGTCGTTGTGTAAACTGAATTAGTTTACTTCATGCGAGCATTGATTTTACA
TTCCCTGAACTCTTATAACATTTTATGTTTGAGCCACACAGTAGGTACTATCTCACATTGACTGAGAATTTATTGTGTT
TAAGTCATTTCTTCTAAAAAGTATTGTAAGCTTTGTGAGGACAGGGGCCATTTTATTTTTCTCTTGTATCTGTTGAAAT
TTCCCACTCTGCTGGGTTTTTCTAAGGTCAAAATAAATTAGAATTAAGTGATTGACTTTTTAATGTTGTATAGTGGTGG
GAAAAGGTTAAAAAGAGTTGCTTTTCGTAGCAAGATGGTATGGGCCAATGACTTCTACCAACACCTAATTCGGTGATAT
AAATGATATACTCTTAGCTTGGGCTTTTCCTCTGTGAACTTCTATGGCAATTGGGTGTGGACAAATGGGTCCTTGAAGA
TATTTTGAAAATTTCCCCAACAAGAACCCAGTGCTTAATGACCCTCTACTGCCAGGTAACCTTCCTAGGTTGCTGCACC
TATTCCCTCTGCTTTTCTTTAAAATCACATACTTTTATATTTCCTAAGAGAAGGTAGAATGTAATAGGCATCATTAATT
TTTGCAGAAAGTCTCCAAAACATGTTGTTAAATCACCGCTGTCTTCTTACCTCCAGGCAAAAAGGTACCAACTTATTTA
AATATTTGTTCACTCACATTATGTGCTCCTGTGAATTTTCTCTGGGTGTCACTCTTCACAGTGAGTATGAGCTCTCATT
TAATCTCTTTCAAGGGAAAATGAGCTCAAAGACCCTGATGTTGCAACTTGACCTCCTTGAGTTTGTATTAAGCTGTTAA
CTTGCTGATTTGTCCCTAGTTTATCTATTATGAAAACTTGGATGTTGTCAAACCACATTTTCATTCCCCAGTCTGTGTT
CACTATTTGATGTTCCCCACAAGTTACACTGCCTTGGTCTCAACTAAATTGGTTTTCTATATTACAAAGTCAATTTAAT
ATCTGAATGATCTTCCAAGATACTGCCTATAATTTCTTTTACTTCTCTCTCACAAAGCCTTATCTTTCATTAATAAAAA
ATGGTCCCAAAGCCCATTGTTATCATTTGCATTTCCCACTTTACACAAAACTAGCCATAATCTCACTATCACTTGTCTG
GTAACTCAGGAATATGCTGTATAAATAGTGTATTTTTTATTTGGTAAAATATTTGCAAAAGTATCTTGTGGTAGCTAT
AATGGATGTGTGAATTGGATAAAAATACTATTAAGTGTGTTTTTTCCTAGTTGAACAACATAGATAAAGAATACTGAGT
AAAGACTAAATATTTGCCTGGATGGAAGACCGTTCATCCAATCAAACAAATATACAGAAACATAAAGAGATAGTAAATA
CACTGGAATGCAAAGTCAGAGTCAATAGTTATTTAAGCTTGCTAATAAAAATGACTGCAATTTCAAGTGCACAGTTAAT
TAGAATTGGATGGTAGAGGCCCAAGGGTGATGGCATGTAAATGAAGAATATGTGAGGAATTCTGTCTTAAGCCTTATTC
ATAGATGTACAGCAGAGAAATTAAGCTGACTGACATTCTGTGCCCTGCAATCGTCATATCACACCTGGGGTGTGGATT
CATTTCAGATACCACAGGTTAAGAGGAAATCAACAAGGAGCAATCAGTCCAGAAGGGTGTTGCCAGGATGGTGAAGCAT
CTGGGAATCATGATGTCTTCGGAACTGCCAAAAGAACCGAGACTGATGTGGCCTGGAAAAGGGAGAGAATAAAAACTCC
TGTTTAGATAATCTGAGGTTTTCATATTAAAAAGATTCAGGGCCAGGTGCAGTGGCTCACGCCTGTAATCGCAGCACTT
TGGGAGGCCAAGGCAGGTGTATCGCTGGAGTCCAGGAGTTCAGGACCAGCCTGGGCAACATGGTGAATCACTGTCTCTC
CTAAAAATTTTTAAAAAATTAGCTTGTGCAGTGGCCCATACCTGTAATTCCAGCTACTCAGGAGGCTGAGCTGGGAGGA
TTGCTGGAGCCCAGGCTGTGGAGGCTGCAATGAGCCGAGATCACACTACTGCACTTCTGCCTGGGTGACAGAGTGAGAC
CCTGCTTCTAAATAAATAAATAAGACTCAGGCTTGTTTTTGAATGACTATGATCAAAGAATAGCACTTTTAGAAAGGTG
AAATTTAGTTTGATACAAAGAACTTTTCAATATTTAAATCTTCAAACTTTTCAATATTTAAATTTTCGATATTTAAATC
TGCTCAAAGATAAGCATTTAAATCTGCTCAAAGATAAGCATACCATGAAGCAGGGCTCCTCATGCCAGAACCAGATATT
TGTTTTTCCTTCAAGGCTGTTCATGCATTAGGGGAAGACTGAATTTCCCATGGCTTCTAATGAACCTTTTAACTATGAG

Fig. 6.251

GATCTGTTACATGAAAATTTTTTTTTTCAAGATGGAGTTTCGCATTTGTTGCCCAGGCTGGAGTGCAGTGGTGCAACCT
CGGCTCACCACAACCTCCGCCTCCCAGGTTCAAGCAATTCTCCTGCCTCAGCCTCCTGAATA TGGCATTAGAGGCAT
ACACCACTATGCACAGCTAATTTTGTATTTTCAGTAGAGATGGGGTTTCCCCATGTTGGTCAGGATGGTCTTGAACTCC
CAACCTCAGATGATCTGCCCGCCTCAGCCTCCCCAAGTGCTGGGATTATAGGTGTGAGCCACCGCGACCAGTGTTACAT
GAAAAATTCTTAGAATAGTGCTTGATGGCACCAAGTAAATGTTCAATAGATATTAGTTGTAATTGTTATCAGTAGTGAC
TATTCTATGCATTTGTAACTGATTATTTTTGGATGGGAATAAGTAAAGGTGTTTAAAATGTTAGCACCGGTTTCTGTT
GCTAAATAATTAAGGTAGTTAGTAAGGTCTTAGGCTACTTGTAACTAATTTACTCTTAATTTGTCACCACTTTATGTTT
TCCATTATTGCCTTTACATTCTATGTTACCTAGATTTGGGATTAATTCATCAAATTTAATATGAAAACTTTAAGTGACT
GCTAAATCACAATTGCATATATTAAATTATCTAGTGATAACGTAGCAATAGTCTATCAAGAAAGGAATGAATCATGACC
GAAAAAATGAATCTCTTTCATTAATTAAGAGAGATGTTTCAGTTTAGAAACTTACAGAATCTTAATGGTTAAGCTCTAG
GTGACGTTAGCTTCATTGGATTATTTTCTCAGGTGACAGATTTGCTACATCTTAGGATGGCAGCTAATATCTATTGAAG
GTATTCATTCATTCACTCACTTCCTAATTTATTTAACAAGCAGTGTACCAACCACTGCCCATGCCTGCACCTAGCTGCT
TACCTCTACAGAGTGTTTTCTACCCTTTTATCCCTTTTTGAGTCAGTCATCACAGGAAGACCAGCCTCTCAGTCATCCT
ATGTCCCCTATATCCCAACCCCAAGGGCTCCATGGCAGCAAAGCAGTCCCTCTTCTCACCCCATCCCTGAACTCCTTGG
GCTCCTTCCCTGCTGTATTTTCCTCTGTATCAGTTATCATTTCTCTTATATATTTTACTTACTATGTCCATTTACCTAT
CTCTACTGGAATGTCAGCTCCATAAAGGCAGGAATATTTGCATGTGTTCTATTTGCTACTGGGTACCCAGAGCCTAGAA
TAGTAACTTGATAAATATTTGTTGAATGAGTGAATAAGGCCTAAGTGTCATGGAAACTGATACCAGAAAGGTGTTATTT
CTTCCCCAGGGTTACCGAAGCCATTTATGGCAGCGCAGCATTGTGACCCAAAGTCACTTGGCTCTGAAACCAACATCCC
CATTCTTTTTTTTTTTTTTTTTTTTTGACAGAGTCTTGCTCTGTCACCCAGGTTGGAGTGCAGTGGCACGATCTTCACTC
ACTGCAACCTCTGGCTCCCAGGGTTCAAGCAATTCTCCTGCCTCAGCCTCCGAGGTAGCTGGGATTACAGGTGTGTGCC
ACCATGCACAGCTAATTTTTGTATTTTTGGTAGAGACGAGGTTTCACCATGGTGGTCAAGCTGGTCTCGAATTCCTGAC
CTCAAGTAATCCACCCACGTCGGCTTCCCAAAGTGCTGGGATTACAGATGTGAGCCACTGCACCCAGCCCCAACATATT
CATTCTTGATCTCTCCCTGCAAGCAAATAACTTTGAAATTATGCTGAATAAACTCAGGGATCTAGAGATATTTGACAAT
GACAATGATATTTCACTGCTGTATGGATTTAAATACAAGGAGACAACTTTTGTATCATTTACATTTAGGAGAACATTCA
GGTCAATATTTGCCTGCCTAATTTATCTCCATGTGGATCACTTTTGTTTCTTTTCTAGATGTATTCAATCTGATTTAGT
TTATTATGAGTTTCTCTATTATTTGTTTTTTTTTCCTTGGATCATTGATGCAGACCCTAGAAGAGGTGGAGTACAGAAA
TAGATTTGGAGAAGCAATAATGAGTAAGCCTCAGTCTTTGCCTCTGAGATGCATTCAGAAGTGGTTGAGGCAACATTGT
AAGTGTGCAGTTCCAGAGCCAGAAGATAACCAGATAATTTATAATCCAAGCAATAATATTGCAAAAGTAAAAGGAGGCA
CTATTTAATCATCATTCCAGGGCAATAGCTGTATACTATTCAGACAAACTGAAGAGTAAAGTCCCCTAGTTTAAAAACT
CGACAAACGTAAAATATGCTTGCACATCTTTTTAGTAATAAATATTTACCTTGCATCTACTATTTTCAGAGACACATAC
TAGGCACTGTAGCAATATATATAGAACAGTGTACAGGGCACTGTGGTGAATTTAAAGACAAGTCATATATCTTCCTATC
TTGTGGTTCAGAATTCACTTTAGGACAGAGAACATTAAAAATACAATAAAAAGCAGTAAATGATGGTGCAAGCTGAATT
AAGCTTGATGTGATGTTAGCCAGCCACAAGGTTTCCAACAGAATTACTGATATGATTTGGCTGTGTACCCACCCATATC
TCATCTTGAATCCTAGTTCCCATTGAATTATAGTTCATTTCTATAATTCCTATAGTTCCAATTTTATAGTTCAGCCAAC
AATCCCCATGTGTTGTGGGAGGGACCCGGTGGGAGGTAACTGAATCATAGGAGCAGTTTCCCCCATGCAGCTGTCGTGA
TAGTGAGTTTCTCATGAGATCTGCTGGTTTTATAAGCTTCTAGTGTTTCCCCTGCTGGCACTCATTCTCTCTCCTGCCA
CCCTGTGAAGAGGTGCCTTCTGCCATGATTGTAAGTTTCCTGAGGCTTCCCCAGCCATGCAAAACTGTGAGTCAATTAA
ACCTCTTTTCTTTATAAATTACCCAGTCTCAGGCATTTCTTCATAGCAGCATGAGAACAGACTAATACGCTGATGCTGT
ACCACTTTTATTTCTATCTCATAATATTGTCAATTGAAATCAGTCCTGTCTTGATGCATGAATTGCACATCAAATGAAT
TGTATGCTTTTTTTTTTTTCCTAGATAGGAGTTATGCCATCTACTTCTTGTGTGTATACATAGTACATGCTCAATTAATG
CTGGCTGGCTGGTTGGGGTAGAAAAATGAATTGATAGATTTAAAAAAGTCATCTGGCAACCAAATATAGAGCCTTGTTT
GCCAAAGACCCCTCCTCTTTGCTGAACTAGCTAGTTGACAGAGTAAGAACTTGCAGCATGATTATTTTTTATCTTACAA
CTTTATAATGATACATTTGGTTATTTGGAAATAAGTTTAAAGTGTTTTAATTCTTTCCACTGGTTCCTACTGTTGGAAA
TTCTTTTGCAGCTGAATATTGGCAACCGTTTGTATCTTGGCAAGTAGACTATGCTTTTTAAGGATGAAAGTGTGGGAAG
TAGTATAGGACATCTGTCGAAGAAGTCATGTTGTCAAAGCCTGTTGTGTATATTAAACTCATTTGTTTCCATTTCTATA
CATTCTAAAGCAAAATGCCACTCCATTTAACATTCAAACAGCTTATAAAGAGCTTGGAAATATGAATTGTGTGGGCCTA
CCTGAAATTTCAATGAATGAGCATCATTTTATTCAGTTGGTTTTGTTGCTGCTTTAGCTCAGCCTAAACTTTGGATATA
TAATAGGTTTGTTGAGATAAGATTACCAGTAGCTAAGGGCTTTTGTTGGATGGGAGAATTGAAACCAGCATAATTTCCG
GTACCTGTTAAATGGCACTTGGACCAGGCCTAATTTACTGTCCTTGTATTTAACAAAGCAGAACAAACAAAACTTACTT
AGATACCTGATTCACTAACTTCCTCTTCTAAGGTATCCGTCCATGTGGTTTTCTCCTTTACTTAAGTAGGTTTAATAAA
CTTGCCTTTATGTGACCAACGGGTTTCTGTTGGGTTTTGGAGGCAATGACAGTTAATAGTAAAATAATATTTTGAGAGA
AACCGCTCTCAAAGAGGCTCCATTAGCTGGAGAATAAAGCATTTTTAAAAAGATGAGACCTTATGCTTCATTCATCTCA
AACTTACCTGCTTATAAAAACAAAACAGTTGATTGATTTGATCAAAAGTTATCCTTGTTATAAAATTAAGTGGGCCTGC
TGACTAGCTGATTTATGGGATTTTATGTTCTTTAACTTCGAAGAAGACATACAATTCAGTCTCAACAGTTTTTACAATC
TGAGAGATTAGGTCATGCTAATAAAATTTCTGAGAAACTACTTATCCATCTGAATGTTAACATCTTTTACTAGAATAGT
ATGTTTGTTTCAGTTGATGAAGACTTTTGTTTGGATGTAAGCTTTCAACTCATTTAGATAAATACCAAGGAAGTTTTTC
AATATCATTATTTTAATGGATTCATGATATTCACATTGATTGGCTATTCCTTATTTTAAGTAGTTGGGCATTAAAGATA
TTTACATCTTTTTATTATTTTGTAAGACACTGTGATGACCTTCATGATAGTTAAATCTTCATTTGCACTGTTATTTCCT
TCTGACTGTAGCCATTGTGTGTAAGACTGCAAAGTGTAATATATGCAGTGTTTAAGAGTAGATTAACAAGAAAAGCTAA
TGTATGAACATAAGTAGCTGACCCTTAATAGAAGAGTGTTTAATTAATTTTGAATTTGCCAGTACACTCTCAAAACACA

Fig. 6.252

GAGCTTGATTAAATAATGGCATTATACTGAGCTTATTCAAGTATTTGGATAACTTTTCTTTACTGAACTGAAACTGATA
GCCCAGGCAGGCACATCTCCAACACCTCTAATTAAAATCCACATTCATCCCTTGCTTCCTGAGAAAAGATGTTGCTCTC
ATGTTCCTTTGGGCACTCTTTGCAAAGTATTTCTGTTTGATTGCATATGATGAATAGCTCCACTACTTCCAATGTATTT
CAGTTGTCAAATATTTATAATTATTATTCTTGGGAAAGTAACTGAGAAGGGAGTTCAGGAAAGACTTGGACAGTTCTTT
GGAGCATCAGGACCTTACAATTTCAGCTATCTTGTTCAATAAGCAAATGTTGTTTTAGGTTCCTGGATTACAAGGTCAA
AGAAGGCAGAATTCCTGCCCTCAAGAAAAGTCATGGGGAAGAGTTGTAAATGCATGAACAGCTATGAAACAGTGTGGTA
AAGTCATGTGAGTTGGCAAAATAGATGAGAGGCTTCTAAGTAAAACTGAGGAATGAAGAATGTTTTTTGGAAGAGATTA
CGCTTAAAAGGAATTAGCCAGCCAGAGAAGAAAGAGAAAAATGTTCTTGCCAGAGTACCTATCATTTGGGAAGCCCCAG
TGGGCCAGAAGAACAGACTGTGTACAGGAAAGACACTACCAAGTGTTATTTGTGGCTGATACAGGAGAGGAAGGGAGAG
CAAAACAATAGAGCATCTCTGTGCTGAGTATTGGAATTTAAATTTTGAACTTCATTACTAAATAATGTGGAACTATTGG
ATAATTTCAAGCAAAGGACTCACATGTTCATGTCCTTGCATGAGTTTGCTAAGATTTCCATTTTAAGATAATCTTGGTA
GGTAAGTGAAGGATAGATTTGAGGAGGAAAAAATGGAAATATTAACTCTAGGCAAAACATAGGGGGAAAGATAATTGAG
AGAGATTAAAGAATGTGTAGAGAGGTAGAAGATATAGTCTGGTCTCTGGAATCAGATGAATTGGTTCCTAACTCTGACT
CCACCACTTAACACTCTATGTGACCTTGGGTATATATCTTATCCCTCAGTGTCTTGTTTTTCTCATCTGAAAAATGAGT
ATAATAATAGGGCCCAACTCATATTTTATGAGAATTAGTCAACCTGCCAACCACAGTGCCTAGCACATTGAATGCATCT
GATCAGTGTTAGCTATTATCTATTGACTATTAATATTATTGTTACTATCAATAGTATTCATGTCTCTAGGGTTTGTGAC
CTGATTAGCAGTTATTGTCTGGTTATTGGCTGAATGGTGGCCAGTACTAGGGAATATAAGAAGAAATGTGGGGAGAGGG
AGTGGAGGAGGGGAGGAACACAGTTGATTTGAATTACATTATAAATGCTCAAATGAACTAGCTATGGAACTTACAAGTG
GAATTTTCTCATGTGCAGCTGATGGTAACAGCAGAAAAATGTGAACTCTGAATAAAGAGGTGGGAGTTTTTCAGCACAT
AAAGAATATTTAAAGCCAATTCATTGGATGCATTGACCAGTAAGTGTAGAGATCAAAATCAAGAACAACTCCAAGAATT
GAGAGCAGATGCAAACCCCAATTTTTGTGGGTCTCCAGTCCAGGTATGAGCAGAAAACACGAGGGTTGGGGAGGGAAGG
AGTCTTCCAAGCCATAAGCCAGGGGAAATCGTTCAGTCAATTCTTATGCTCTGATGTGGTCATTAACAGATGATAACCT
CATCCTAAAGATGAGACTTCTTTAGGAACATCCTAAAGATGAGACTTCTTT
AGGAACATCCTAAAGATGAGACTTCTTTAGGAACATCCTAAAGATGAGACTTCTTTAGGAACATCCTAAAGATGAGACT
TCTTTAGGAACATCCTAAAGATGAGACTTCTTTAGGAACATCCTAAAGATGAGACTTCTTTAGGAACATCCTAAAGATG
AGACTTCTTTAGGAACATCCTAAAGATGAGACTTCTTTAGGAACATCCTAAAGATGAGACTTCTTTAGGAACATCCTAA
AGAAGTTCCTCCAGCATTTAAAATTGCTAAACGTAGGCCAGGGTAGAGTTAAAGGCTGAAAGAACCTTAATTAATATGT
ATTATTCCAGTTATTAGAAGAAAAGTCCTATGGATTGAAATTGCTGCTTGCTGGCAATTACTTTTAATTGCTGTGCAGG
GCATTATTAACGTTGCAACGTCTAGCATAGTGATGAAAATTGATGTTCCAGATGCTTTCATGTGAGTTCTCCTTTTCTT
TTAATGTTCTCAAGAGCATAGAATCATGGGGATGATAAGTGAGATTTTTGCTAGACTCTATACCTGTCTTCCATAGAAA
TCCCAGTATGCAAAAACAAACAAAACATAGATGGGTAATCATGGCCATTCCTTAATAAGATTTGAGCCTTATTTGGAGG
TAGGCCTGGTATGGATGGTAGCTCTAATCTTTAGATGAAATTAAACTCTCCAATGTGTTCTTATTTTCCTAAAGATCAA
GTCCCCAACTACCTCTCTCCAGCCCCAGAGAAAGGGAATTGTTGACGATAGAAAGATTCCATTTTCTTCCCTTAAGGGC
CACCTCCTGCTAGTTGGCCAGAGTTCTCACAGACTCTGAATTCTTGGCAGGCTGGAGTTTAACAGTAATCCTCTCTCAT
CCAAATTTAAGTACAGGTAATCCCCAGGAGCCCCTGCCAGGCTTTTGGTAAATAATTACCTGGGTACAAGCAAAAATGC
CCCTGCTAAGAAAACTCTGGAATTTTACCCATCATAGGACACATAGGTCTCTACCATAGAGGTTTATATCTTATTCTTC
AATTTCTGATTGTTACCCCTCCTAGGAAATTCTTATGTGAAGCAAATCTTATTCTCTTCTACTGGGCAATCTCCTAAAT
TAGCTGGCATGTGAAAATGCTTCATTGAGCTTTTGTTCTTCAGACTCTCAAATGAAGGAGTATGTCCAAAGAGCCTCTT
TATGCAAAATCTACAAATTACACCCCAGTCATACATCACAATTAGTTGGCAGTCATTAGGCATTACATCCATATTGTAA
AATTAGTGATGTTTCTCCCAAATTATGAAATATTATTCCCATTAAGAAAAATATACTGAAGAGTAAAAACATAACAGAA
TTTTTGCTATATTTATTCTCTTCATAATTATGCAAATTAATAAAAATTATTTACTATTTACTAACTTTGCATTGAGTGT
TCTCTCATTCTGATGAGACTCCAGACTTCTGCCTTTTGTACACCTGTGCAAAGCCTTTCTAAGCTGTTTATTTATGTCC
CAATATATATTTCAGTTCAGAAAGGCTGTTCTTACTTTTGCGACACCTTAATAGTAGTTTTATTTCATCAAGGAACTGT
ATGCAATCACTGGATATTTCAGAGAGCTGCCTACCTTATTTTCATACTATAAAGAAATAAACTTGAATAACAATGGATA
GTCTTGGCAGGAGTGTGGAGGAGTTGACATCTTCCAACATGACTGTGGGAATATGAACTGCCATAGCCTATTAAAGGGA
AAAATGTTCACAATTTGTAAGCTAGCAATCCATTTTCAGAAATACAAGCACCAATCAGTAAGAATATATTAGCAAATGT
GTTTATTGTTTATATGAGTCCAAAATTATATGTCCGTCAATAAAGGACTCATTGAATAAATAATGGTACATTTATGCCA
TGGAATCTTATATAACTATTGAAAAGAACTCACTAGGTCTCTGTGCATTCACAAAAATAATTTTTTCATGATTGACTTA
ATATTAATAAAGGATTATACATAGTATGAGCCCACTTTATTCAAAAAGGAAGGAGAATCCCTATACATGTGTGAGGGTT
TGTGTATTGTGTGTGGTATATTTATATTTGTATAAATAAAAAGTTTGCTGTCTTTTCCCTCCCATTAATCCTACCAAGG
AAGGGAAAAGACAGCAATCTTTTTTATCTTCACATTTCTGTGTCATTTGGCATGTTAAAAAAATAGCATGTATAATTTT
GTAATTGAAACCTAAAATATAAGAAAGAAAATTATTGAATAGAAATGGTAAATACTATGCAGCCATAAAAAAGAATGAG
AGCGTGTCTTTTGCAGGGACATGGATGGAACTGGAGGCTATTATCCTTAGCAAACTAACACAAGAACAGAAAACCAAAT
GCCACATGATCTCACTTACAAGTGGGAGATAAATGATGAGAACTCATGAACACAAGGAAGGACACAGACCCTGGGGTCT
ACTTGAGGGTGAAGGTGGGAGGAGGGAGAGAAGCAGAAAAGGTAACTATTGGGTACTGGGTTTAATATCTGGATGATGA
AATAATCTGTACAACAAACCCCCATGGCACAAGTTTACCTATGTAACAAACCTTCACATCTACCCCCAAACCTAAAATA
CAAGATTTAAAAAAAAGGAAAATTATCTACTCTTTCAAACTTAAAATTTCTGGATTTTAACAGTGTCTGCTGTTTAAAC
CCAAACAGTGTCTGAATTTGGCTACTGAAGAATAAAATGTAGCCCTTTTTCAGCACACTGTATGTTTACCCAGGTCCCA
GGATGCTTAAATAAACTGGCGTGTCTATTCAAATCCTGGATAAGAAATAATTTTTCAAAATAAAAATTATCTCACAGAA
TACTCTGAACACCTGCTACTCTCATTACCCTGAACACTTGTGGTTTTGTTGCTATAACTCTAGCAAATGGCATAAAGGC

Fig. 6.253

TAGAAAAACTGTGGGATAAAGATACAGCATTTCTCTAAGACCCTGCTGCCTTCAGTAGAATTATTTAATATCCTTTCTA
ATTTCTCCAACTTATTTTTCACTGTTATGAAAAAACAGCTTACAAAGAATTAGTAACATTCACTATCAATGATTCCATA
GATCTTCGTTCAAAGTGCAGGTAGAAGGTGCATTTCTCAAAGAGTGTTTAAACGAGGAAAAAAAATGTGTATCATCAT
CAACGTTTTAGTGAATAAAGACATTGCTTACCGTTTTTATGTTCCTGAGAGGCTAAGTTCAGTTCTATCATGAATAGTA
ATTTATGAATAAGAACCCACAATTTTTTTACCAGAGAATTGGAAAACCGCCCATAACATTTCCATATACCCATCTCATT
TTCTAAGTATCTATAACAGTTTAGTGAACAATATTCCCTCTTCGAAAATATAGCAAATAATTATTTCCTTCCTATCAGA
TATGCATGCTTTGTTTACAGGTAAATAACTCTGATTACCAAACTACTATTACATTAGGTTGATGTTCTTTTCAACGTTA
GACAAAAATGGATAAAACCTTGCTGCCTACTCAGAGATTTGGTCTGAGTGGAAATAGGCTTTTGTGGAGCTACAGAATT
TCTGCTTTATCTACTCAGCCAATAATTGGTCAGAGCATGAGCCTGGTTAGAAATAAGCAAAAAGCTTCTTGTATCCATG
AACAGAATGAACAGAAAACAAGGTAGTACATTTAGCCTCCGAGAAACACGCGTTTACTTTTGAAGCAAAGAAGCACCGG
GCAACCAGTGAGCAGCATATGTCTGAAATCTATTATCTGACATGTTCTTTCCAGCCTTCCCAGGAATGCTGGTCTGACT
ACTCAGATTTGCTTTTACTTCTTGCCTTTTGGATATAATGAGTTTGCCAAGCAGCTGTGAGTACCTGACTCTGGGGAAG
GTGGCTAGATTCCGAAGCGCTTATGTTCATGGATCACCATACGCGATCAACATGCCAATTGATATTAAGCCACAGAGGA
GACGGTAACTGCTTTCCTTTCCTCTAGTTGTTTGTCAGTGAAAATGTGTTTTGTTGCCCCTTTGGTAACTGCTTTGGATG
TCTGCTGAAATGGGAGGGTCAGGGTGAGAAGTTAGTTTTTATTCAACACACTGGATAGTTGGGAAAAAAAATTAACCAGA
GAGGAAAGCTGGAAATAGTTTAGCTATTTAGCAAAAGCTGATCTGGTTTCAAGGTCTGTAGATTTTAAGAATTTGAGAG
ATTGTCAGTGCTTGTATTGCCATCAAAATCACCCATGATGAGAATTTGAAAGAGGATTTAGCCAAATAATGGATATATT
TATTGATGGCTATATGGCTGTTTATACCAGATGCCCAGTAACTCATAATCTACATGTGACATTCCTTAATGCATCATAA
CACATTAATGCAATAAATGAGTTATAATTCTACAAAAACATTTGTTTTCCTGTAGTTGCTAGGGAGGGAAGAACAAGGT
TATGTATTTTTCCTATAAAAAAGTTGTCATTTTAGATCTGTGTTCTACCCCCGACCCACCCTTTTTATGTAGTATCAGA
ATAGCGATGATATAGTTAACTAATATGTCCAAAAGTCACCCCTCAATTTTGGTTTTATACAACGTCATTTTCTTCAGCA
ATTAACAATGAACTTCAGAAGCATTTATAAAGATGTTCCATTCTCTCTGTGAAAATTCCATTTCTCCCTAATTTTATGA
ATCCACATAATGAAAATCCAAAATTCTAAAAGCAATGTATTTTACTTGGAAACTGTCATTACTATCTTACTCTTCTACT
TTTCTTTTTCTAATTATATCTACACAAACTCACAAAGCATGCATTTTGCCAGATTTCACCTTATTATAAACATGAAGGG
ATGTTTAAGTGATTAAAAAGTTTCTAAACCTTCAGAAAGCTTTCTGATTTTTGTGAGACAATATTTTATTCTTTTCTCC
AGAGTATCAAGGCTTTTCTGTCCAGCTCTATCACTATTTGACTTTATGACCGGCTAGCAGCACCAAGCAACTATTTTAA
AATACATTCAGAAAAGTGTGTCCTAAGACACCCAACATGGCTCAGTTGCTGTCAGTTACCTCATTCCCTTCTTTAGTTG
GTGGGACGATACTACAAATCCATACAAGTTGCAAAATCCACATGAATATCTAATGTCCCTGTTCATATTACCTTAATTT
TTCTGCTTTAAAGTAATCAACTTTTTGTACAAGTCAGTCAAATTATGTTTTTATGTATATTGTGTATATGCATAGACCC
AGAAAATTTCAGACATATACCTATTTAGGCTTAAAATTGGGCATCACAGTGTATTTTACAAGAAAATATATTTGAAAGG
CATTTTACAATAATTAGTATTTAATTGTATAGGTCTTGGGATTTGTAAAAATACCAGATCCATCTTTTCTTTCAGTAGA
ATACATTACTTACCTATGGCTAGTAAATCAATTAAATAAATTTTATATAAAAAGTTAACTTATTACATCTGGAGCTTTC
ATTCTACGAAAGGATAAATATGACAACAAACATGTAATGAAAACAATAGTTAGAGGGGTGGATGAATGAATGGAAGAAC
ATCCAAATCATAGAGGTTGTCTTTTTATTCTGTTACTCATTTTCTTAAGTTGTAAATTTTAAAACCTCAACTTCTTTTG
AATCTGTTGAGAAAACAATACACTTGGAATGGTGAGTCATCATCTTAGATTCACTAAAATCTACCTAAGTTTGAATGG
TTCTTTTTCAGAATGCTTGCTGGGACTAAGATTTATCTAAAGTAGCATGTTTATGTTTATTTCATATCATCTCGGTTG
TGGTTTTTGGCAGAAAGAAAATTGTTTTCTAATTACTTAAAAAAATCTGAGGAAGGAAGGATGGAAGGGAGGGAGGGAA
AGACATCTAAAGAAGAGTAGCTATGAGTTGATATTTCAGCCTACCCAAAGAAGCAGAGATTGCGGGACAAAAAATAAAA
GATAAAAAAAATTGGCTTTTCACGAAAATCCATAGAGAAAATGAAGTAGGAAATCAAATGCATAAGTGCAAAACATAGC
TCGATTTAAAGCTAAGTATATCCTTATAAAATAATGACTTCTTGAAAGAACAGCATGTTTTTCTTGGAAAACAGGGAAA
TAATTCCCAAATTATTAGAAAATCACCTAGATTAGACACATGACCACATGATCATTTAATTGGTCTCAATTTTTATTTC
AAGAGCAGCAATGAAGACATCAAGAAAGCAGTTAACATACTAAATCTTAAGTAAACTCAATGTTGACGAGAATGACAAC
CCTACCATCTGTGATTATAATTACTTTCTATATTTGCGATTTAAAAATGTTTTCCTTTTAATTTTTGGTAGCCTCTGTA
AATTGTACTGTCCCACTTTTTCTTTTGTAAGAAATATAATTTTCTTTCAATTTTATGAAGCTTTTATGTCTCAATTTTA
GTATAGCAATTTCTTTTTTTTTTTTTTTTTTGAGACAGGGTCTGTGTCTGTTGGCCAGACTGGAGTGCAGTAGCAATCA
TAGATCAGGGCAGCCTAGAACTCCTGGGCTCAAATGATCCACTTCAGCTTACCAAGTAGTTGAGGTCACTGTGCCAGGC
TAATTTTTTTGTTTGTTTTTAGAGAGACTGGGTCTTGCTGTGTTGCCCAGGCTCTTCTCAAACAGTTGGCCTCAAATGA
CCCTCCTGCCTTGGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCAATCAAGCCTGGCCCTTCATACAGAGATTTAAA
AATCAGATTTAATCTGGCTCTTCTAACCCATCCTCACCCAATTGGACTGTAAAGTTTTTGAGTGTGTGGATCACGTCTT
GGTTGTTGTTACTTCCCCAGTGTCCAGCATAGAGCCCAGAACAGGTTAAATAATAAATGTTTGTTTAATAAATAAATGA
TTAGAAAATGCATGGTACATATTTGGCATAGGGGCGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTG
TGTATAAAATCACTTCCCTGTATGCCACAGTATGGAGTCTTTGGCAAGATTTTTGCTTCTGTTATTCATTTGGATCAAT
TAAATTCCCTTTCCTTGTTTCCCTGTAGAAACTGCATGTAGCACTGACTTTAGATTACTGGCTTAAGTGGTTGGGGATC
ATGCATTTTGTCATTACCAGGTCAGCAAAGGAGAACCTGAAATAATTCACTTCTGTATTCATAAAAGTATATATTTGTA
TATATGTAATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTATAGCTTCAAGTTGTAGAA
AGGAGGAGAAAAAGTCACTGTGGGAGGTGGCAGAGGGGAATTTCCTAGAGGGAAACAATACTGCAACTGTAAGAAAATG
TAAGAAATTTGATAGAAGCACAAAATTTCATAAAATCAGTTATAAAAATTATGACATATAAGCCCCAGTTCTGTTGTCT
TGCTATAATGTAAAAGTCACATTTTTTTTAATCAAAATGGAAAATAAAAACTAGTAGCAGTGAATGTGGTGAGACAGT
AGCCACTGGCACCCCAAGGCAATGGAAAGCAAGTGCCCTTGAGCACTACTTTTCACAGCCGGGTGTCATGTTTTACCTC
ACCCAGCCGCCTTCTTCCCTGCATTTGGTGGCTTGACACCATTACTGTCGGGGCAGGGTGGGGTGGTAGGGGGGTGCT

Fig. 6.254

TGTGGGAGTGCTGGTGAGGGTCCTTCCCTTGCTGCCTGCTCTGTGCTCCCTCTTTCTGGTGATGCAGCTGTTCTGGTAT
ACTCTCTGGCCTCTGTTTTTCTAAATCCTTTAGGTAGGCTTGCTCTCCCTATTATCGCTGGGATCAAGAAAAAAAGCAGG
GTACGAAGATCCAGAAGACAGGAAGGAATACAGTAAGTGTGAGTGAAGGTAAACCAGCCTGCTCTCTTCTTGTGGAACG
ATCACAAGGTCATGCACTTAGATTTATGACCAATCATCAAGCTATTAATTTACTCAAATGGTGTATTAATTTGTTAGGA
CGGTCATAAGAAAATACTACAGATTTGGTGGCTTAAACAGCAGAAATTTGTTTTCTCACAATTCCAAAAGCTGTGAAAT
CCAAGGTCAAGGTGTCAGCAGGTCTGGCTTCTCCTTAGGACTCTGGTTGTCTTGCAGATGGCCACCTTCTCACTGTGTT
ATCTCATGGCCTTTCCTCTGTGCGCAGGCATCGCTGGGATCTCTGTATGTGTCAAAATTTCCTGCTTTTATAAGGACAT
CAGTCAGACTGGATTAAGGCCCACCCTAAAGGCTTATTTAAATTTTAATCTCCTCTTTAGTGGTCCTATCTCCAAATAT
AGTCTCATTCTGAGATACTGGTATTTAGGGCTTCAGCATACAAATTTTGGGGTAGACACAATTCAGCCCATAACAAATT
GTGCTCATGAAATGATTTACTAATAATGATTGTGGAGAGAGATAGTAATCCGACTGTGAATCCTGAATAATTAGTGGCT
TCATGTTCATAAAAGTGGACTCAATAATGGGCATGAACCTGCACGAGGGAGGCATTGCGGAGAAGAATACGTCCCATTT
TCTGTACCAAAGAAAAACAAGTACACATTGCAAACAATAAATCTTTATCAAATTCAACCACCTTATTTTGAACTCTATA
ATCATTCAAACGTGGCCTAGACTAACATTTGCTTTTTATAGCTTTTATCAAGAGGAGTGGAGGTATTAAAATTATTAT
TGAGGGGTGTAGTGATTTTCAACTGACGCAATTCTACCCTCCACCTCTCATGCAGGGGACATTTGGCAATGTCTAGGGA
CTTTTTTTATTGTAATAAGTGGGAAGTAGCTGATGATTTCAAGTAGGTAAAGAATAGGGATGTTAAATCTCCTATAATA
CACACGACAGCCTCTCACAACAAAAAATTATTTGACCCAGAATGTCAGTAGTGCTAAGGTGGAAAAAAACCTTATGTGAA
TCAATTAAATCAGGGAGAACTTCAGAGCTTTTTAAGACCTTTATTTATATCTAGATGATTGATATTTTTTAGGTATTC
ATGAAAATACTTTCTTTTACCTTTCTTGTGGTAAGCACAAGATAACACTTTCTTGCCTGGTTAAAAATGGACAACTGCT
ACACTTTTAAAATAATATAAAGCATTCAGTAATTCAAACCATCCTGTCTTCTGATTTGTCTGAATTAGTGTGGCTTTAC
TGCATTTTCAGGGCTTATTATTCTTTCAGTAGGGAGACTACTAAGATTTCATTAAAGATAGCTGAATAAATGATCAAAT
ACATTATTGTAGCTCCAGACTAGGTAATAAACATTGAGATATGCTTTTCAAGTAGTGGTGAAAATACTAGGCAAAATTA
CACATACACTTACATATATTAAGCGACCATCCTGTTGGCCTGGTATGTGAAGCTCTGCTGAACTCTTGCCTAAATGCAT
GGACCCATCGATTGTGAATGTGTGACTACTTGTGTGTTTTCATCATAACCAGCTCATCCTAATAGCAAATGATATGGTT
TGGCTGTGTCCCCACCCACATCTCATCTTTAATTATAGTTCCCTTAATCTCCACATGCTGTGGGAGGGACCCTAGTAGC
AGGTAATTGAATCATGGGGGCAGTTTCCCCATGCTGCTCTCGTGATAGTGAGTGAGTACTCTGAAATCTGATGGTTTTA
TAAGCATCTGGCATTTCCCCTGTTGGCACTCTTTCTCCTTCCTGCTGCCCTGTGAAGAAGATGCCTTTCTTCCCCTTTG
CTTTCCACCATGATTGTAAGTTTCCAGAGACCTTCCCAGCCATGTGGAACTGTGAGTCAGTTAACCATCCTTTCTATAT
AAATTACCCAGTATTGGATATTTTTCATAGCAGCATGAGAACAGACGAATACAGCAAAGAACACGTTTTATGAAGGAAA
AACTTTGAAAACAAAGGGACTACTTTCTTTGATGAGAGGCCCTTCCTTTCACTTTAAACAAAACTTCAAATTATCCTCA
GAATTTGTTCTAATTCTCCCTACTTCTGGGTAAAAATTATTAGCAGTAACAGATTTAACTTGAATGTATATCTCCAGTT
CCCCATTCTCTTCTCTATGTAGTGCTGCCAAACTCAATAGATTTGAAACAAAAATTACCCAGGGACCTTCCCCATCTCC
CATGTCCTTTTTTCTTATGGCCCAGACCTGGAAGTCCTCCTAAGTGCTTCCTCTCCCTCAGCCTAACCACTCTACCACT
ATCCAGTTGCAGGTACACTCTTCCTCCTTCACCTCACCCTTTGATGCCATCTCCACTGCTACCATCTTGGGTCCAACCC
TCATGTTATCTTGCCTGAAAACCGCTAACTTTATAACTAGTCTCTGTTCTATCAACATCCTCTTCCTGACTGTCATCCA
CAGATCCACTTTCTAAAATGCCATCATGACGCTTCCATGCTTATACCACTAGCTTTTCAGTGGCTACCAAAAAAAAAAA
AAAAGGTTACATTCCCAGCCATCATGATCTATTCCCTTCCACATCTCTGCATCCTTGTAAATTGCCCTTGTCACCCATG
TATACTGTGTATTTTAGGTATAAATAACTACTAGCTATACCTATTTTTTGCCTAGAGTTCCATTCTCTCCTCATTTTGT
GATGAATCCCATCATTCCACAGATCTTTCCTAGAAGACCTTTCATAATTTTCTATTTCCAAATGGAAGTGCCTCCTTAA
CTAGCTGTTTTTCTTTTCTTCTGTGTCTGTTACTGCACTATCATAATAAATCTTAATTTATATATTTTCTATCTTTCCT
CCTCCCTAAGAGTGGCATGATGGAAAGAGTTGTTTCAGAAAAAAATTTGGCAATGGAATGCTGCATTAATTGGAATGGAA
AAGAATGAATCCCTACACCAACAGAAGGAAGCAGTGTGAAATCCTGACAGGGACAATTTCATTACAATTACAAAATACA
TAAATATGTGATTACAATTGTGAGAACTGCTCAAAAGGAAACAAGGACCCAGTGAGAGTATAAAAATAAGTACCTAACA
TAGTCTGAGTGTTTGGAGAATGCTTCCCTGGGGATGATGAGGCCTGAGGATGAGTAACAACATACTCTGCTGAGAACCA
CATGAATGAAGCCCTGATGTGTTAAACTAAAAGGATAAGGTGTCTGAAGTGTAATGAGGCAGAGAGGAGAGTGGCAAAA
ATAAACTGGAGAAGATGAGTAGGGGAGACTACTGTTTTCTTACATGCTAATTAACCCAATAATTCTTTATTTCATTTTG
GAGAGAAACAAGTGATTATTTATTAATTTATTCATTGGCAATGCAATTTAAAAACATATTCTTTGTGTCTTATTTATCA
TTGAGGTTTTTAAAACATTGAAATAAACAATAGGTAATATTTTCCAACTGAGATTTAAAAAAGAAAAAGGTCAGTTTTC
AAATCTATTCCCAACTGCTAGAGTTTAATAAAAACTGTCATAAATGTTGACCTTTGTTCTGCAATCAGTTCAGCATTTA
TCCATCACCCAACCATGCAGCCTCTCGCTTGCCAAAAGGAGTGGAATGAGAATTGTTAGAGTACTTGGAATGTTTACTG
TCAGCAAAGTACAAGACACTACACAATCTTGATGACCTTTATATGATAGTCCCATTTCTATATCCAATAAGAGACATTA
AATTACTTAATAATTCTTTGGAACTTTCTTTTTAGTTTTTCATGGCTTTGCTCTTAAGTTGAAGAAAATTATTACATGG
ATGAACTACAAACGGAAAGCTTCTGTTATCACCTTTTATCGTACTTTGTAAACTATGATAAATGAAGTGGCGAATGCTG
ACAAAGCATTCCAGGCTCAGGATGGCACCTTTCAAAGGCAAAAGAAGGTGAACAATCTACTAACAGCCTTTGAAACAAT
AGTCAGGACTTTGGACTTGGCCCATAATGTTGTGTTTCATATTGCCCTAAGAAGGTTGCTCTAGGAAGGAAAATAGTTT
AGTGGTGATGGAGAGAAGGGCCCCTAAGGGAAGAAATTTGATGAGAAGGATGTTACAGGTGTCTAAGGAAAAGGTAATC
AGCTCCTCAGACAAGATGGAATGTGCATTGAATTTGAAAAGATGGTCAGTGCTTCATTCATGTGGTTCTCAGTAGAGCA
TGTTGTTACTCATCCTCAGGCCTCATCATCCCCAGGGAAATATTCTCCAAACGCTCAGACTATGTTAGGTGCCTATTTT
TGTACTCTTACTGGGTTCTTGTCTCCTTTTGAGCAGTTGTCACAATTGCAATTACATATTTATGTATTTTATTGGCCTA
AGGGCTTCCTCCCACGTTCAATCATAGGACCATGGAAACAAGGTTGAAGCCTATGTTTTAAACCATTATGTGTCTGGTG
CTTTGTCTGGGTCCTGGTACATAATAGATATTCAATAAATTCTTGTAAAATTCATTTTTTTTCAACTGAGAGTACAAAA

Fig. 6.255

GTAATCAGACAGTAAATATATGTGTACCCTTTTGGAGAAACATTAAATTCATTCCATTAGCAGGCAATGAGTTCTTTAT
TTAAAAAAAAGTTCTTTCAGCAACTTCCAAATGT[illegible]TCTCAAGCTCTGACCACTCCTCCCCTTTAGACTCCTACTAAC
TGCTTGGAAATTATTTCAGTTGTTCTCATGGCCAAAATTGAACTCATCATCTTACTCTTACCATCTGGTCTTTTTCTTC
TATTTCTTTGTTGGATTGATTACTACAGAGTTATCTAAACTAGAAACACAGGAGTCACCTTAGTCATCTTCCTTTATCT
TAACACTGTCTCTCATCATCAAGTCTTCTTTTACCTATAATGTTCTTATATGAGTCCCTTCCACTCTGTCTTTATTAAT
ATTGCCAACTGATGTGAACTACTGTAAGAGCCTCTGAAGTGATCTCCACATTGCTGGTTTTCATATAATCCACCCCAAA
GGTCTTTGTGTTTGTTGGTTGGTTTCATTGCTATAGCAATATTCACATTTCTGCAGTACTAGTAAATTACACTAAAAC
GTACTGTGTTTTATAATTGACCTCGAGTATAAACATACAAATTCTACTGCTCTGATGTTTCTTTCTAAGCAATGGTTGA
ATCAAAAAACAATGAATTTGCCTAATTTTCATGATGAAAACGTTCAAAATTCTCCTAAGATTTCTTGAAATCCAAGCTT
GTGATTGTATGAGAATTCACAATAAACCAGCTCACAAAATGTATAAACTTCAGTTTGTCATAGTCTATGAGGAATTACT
GAAGCATACGGCATTTACTCATTGATTTTTAATTCAGGCAAAAGTTAGAAATACACAAACACATACGCGTACGGAGGTC
TCAAAGTCAGTTGTGCGATAATAAATTATTTAACTCACCCTTATGATAGGTAAACAGTTTTCCTAAATCGCCCTCCTGC
CCCCTGCTACCCTGACTGAAAATATGTGCTCTGGTTTGTGCTGTTATTTTTGAACAATGTATGCCGGTATCCGATGTAA
GATGATTCATATGATACTGGTGTTACCATGGCAATCCATCATGTATATAGCAAGAACACTGTGAATACCAGCAGCTCTT
TGTTCTCTTCAAGTTTCCATTTTCTTTTCTTGTTTTTTTTTTTTTTTTTCTTGTGCAGTAATCCAGTGGCTATGACATC
AAGAGTAACACAATCTAATTTTCTCCTTCTGTTGCTTGTGGTAGGATTCATACTCTGCTAGCAAGGGAGTTCTTGGCCA
TTTTGATTTGCAAGAGATTTTGCTTCTCCCTGATGTTTCATTTCGTCAGCAAAGTCTTCCCTCTGGGGAAAAACCCACT
TGAATTCTAAGGCTGATAGATGCTGGGAATCCCATATGATGAGTCCTGTGGAAGCAGGACATTCCAGCCCTGGGGTTGC
TGTTGTCTCTGACTTCAGTATATGTTCAAAGTCATCTCAAAATAAAGTAGGAAGATGAGTGTTAACCTGCACATCACTG
GCAGTTTTTAAAGGTAAATTGCCATTTTTACTTACCACACTGGATTCTCCAAGTCAGACTAGGATTTGGGTTACAATGG
GGATCATTGGGGTTAAATTACTTAAGGGATAATGAGATTTACACAGACCCATTAATCTTTCTAAGCTATTGAGAAATTT
TACACGTACTGTGACTGAGGAGAACCTGATACTGTAAAAGAGCAATTCAGTACAGTTTCACCATCCAAGGACTTACCGA
TGCAAATTCAAATACACGTGCTAAGTAAAATGGGAGAGATAGAGCAAGGGAGATATAAAAATTCCAAYAGAGCAATTCC
AGATGCCCCATCTGCCACCACGTGCAATGGATCTATGTTCACTAGTAAGTGTGATTGAGGTAGGAGATGTGGATCTACC
ACTCTTCCCATCTCAGTTCCTTTGGTGAACTGTTGAGTGTGAACATTTTGCCTTACATTGGGTGATTCAAGGGGTTCTC
CACGGTAAAAGTGACTATGTCAGATTCTTGCCACATAATCTAAGAGATGACTCCACTGAAGTTTGTGTTACTCTACCAT
CAAAAGATGTATCTATGTTTACAGACATTCTTTTATTCAATTTGAAAAGAAATTTCAATGTCAATAATAAATATTAGCC
TCATTTGTGAATTAAACAGATGTTAAGATTGCATGCACGTCAGTAAAAAAACTGTTGTACAGGAAACTCTATGCACAGG
AGCCTCCTACCATGTCATCCAGCTCAGCTACCTTTTTCTATTCAGCTTTCTGCAAGTATTTATTTTATATAATGCACAT
GTAACTATAAGGATACAAACATGGATCATACAAAGAACCTGCCCTCATGGAGCTTAAAATCTAAAGACAGATGATAAGT
GCTAAACATAAATAACTGTCCACAACATTAAGATATCAGTAAATTCATTCATTCATTTAATTCACTCATACATTCACTT
GTGCAGCAAACATTTACTGAATAGGAACTGATTTCAAAATTTTCAGCTAGGAATGCAAAACTGAGAGAGAAAAATTCTT
AGCCTTCAAAAAAATCAAAGTCGAACTGCTCAGACAAAAATTCAAAGGGAAAAATAAATTATAACTACATAAGGACTTT
AATAGTCCTCTAGGAGTACATTAGACCAAACACCTACCACCAGCTGGGCTATTCAGGGATTATCTTACAAATAAGGTCA
TGAAAGAGGATGAAGTACTCTCCTGAAAGGCAGTGCCTAAAAAGAGGGTGGCTGGCAGAGAATGAACTCACATTACATA
GCACTTTGCAGTTTGCAAAGTAGATAGTCATATATTGTTTCCTTTGACTATCACATCAACTGATAAGAAAACTGAGACC
CAGCAGATTCAAAGGTCTTACTGAAGACCATAAAGTTAGTTAAATGTGGCCAGGTGCAGTGAGTGACTCACACCCATAA
TCCTAGCAGTCTGGGAGGCCAAGGTGGGCAGATCATTTGAGGCCAGGAGTTTGAGACCAGCCTGGCCAACGTGGTAAAA
CCTCTACTAAAAATCCAAAAATAAAAATTAGCCAAGTGTGGTGGCATGCACCTGTAATCCCAGCTACTCTTGTGTCTGA
GGCACGAGAATTGGTTGAACCTGGGAGGCGAAGGCTGCAGTGAGCTGAGATCGTGCCACTGCACTCCACCCTGGGAGAC
AGAGTAAGACTCTGTCTCAAAAAAACAAAAAAAAAATTGTTAGGTAAATCCTGGAGTTGGGACCCAGGCACCAGTCATC
TGTTCTCTAAATATTGTCCCATGTGTTCTGTTAAGTACCATGGAGAAAGCAGGAGTAAAATATTTTGGCAGCTCTGAGA
AGGGAGAATTTACTTTCAACTGGGAGTATCAGAGAATGCTTTGTAGATAAAATGACATTTGGTCTTGCAGCTTGCATTC
AGTTATGCAGAGTTGAAGATGAAGGGCATTTCAGGCTGGGAGAACAATCTCACAAAGGTGTGGATGTAGGAAAATACAT
GAACGTTTATAGAAAAAAAATTGAGTGTGGTCAGAATTTATTGAACTTGAGAGGCAATCATGTAGATAGGAGATAAAAC
AGGAAAAGGAGAATGAGACTATATTTTTAGGGTCATGAAAATTAAGCAAAGGAATATTTTCTAAACTAAGGTGAGCTAT
TAAAGATTTTGAAGAGAGGGAGTCCTATGATCATAGCTTTGCTTATGAAAGAATGAAGTGGCAGCAATGAAGACACACC
TTGGAATACCAGAAGACTAGAGTAAGGAGACTAATGAGGGGACTTATAGCAATCATTTGCTTTGCAGGTAATAAGGTGG
TAACTAATACAAGATGATGGATTACAATATTAAATTTTGTATTCTTTTAAGTTCTATGTTTCTGCAATGGCTAAATGCA
AACCTATCAGGAAAAGTAAAGCGTTTTGTTGTTATTGTTGTTGTTTTTGCTTTTCAAAAAGTGCAGGTAATTAGGGCCT
AACGTGGAATGGTCCATGCTAGGAATAAAGTAGATAGCGGCGAATGTTTGCTAGAGACATTGTGATGGACTGATCTGCC
CTACTATTACATCCTCAGCAATAAATATGAATGTTTAAGTGGTACAATTGCCAGAAATCAGCCAAAGTTTGGCATAATT
GTTAGAGATTTGTTGGCTGTGGATAGAACTACATAATTTTGGAATTGTAGAGGAGAACAGAGAAGAAACCAACAAAAAA
TAGTACTAGTACTCTGTCACTGGAAAGAAGTATGTTTAAGGCCACACAGTGAAAGTTAGCCATGAGCTTGAGTGCTCTA
TCATTTTTCATTATGTTGTTTGTTTATTAAAAAAAAAAAAAGGTAACAGCTTTTTCTTTTAACCAAACATTTCTTACTG
GAAGTTCAATAGGTGTACAGTTGTTTTGTTTGGCTAGACATGGATATTTGTGTGTTATTCCCTTTCAGTAGTTCTGAAA
ACCATTTTATCTTTAGATACATTATTTTCCCAGGAGCTTGGGTATTTTATTGAAGCTGTTTCAAATGCATTTAATGTCC
TTTGTAATGGATTTCTTTATCTCTTCCCCAATGCTCTTGGCTGGAGATGTTACTTTTTATTTGCCTTATCGGTGTGAGC
ACCTCATTGCTATAATCAATAGATATAGTACTTTAGCATTCTGTACATTTTAATATGATATATACCAAATATAATGTAT
AAATGAAAAGTTATAGATAATTTTTGCTTAAGTTTTCTTTTATAGAGAATTGTTAACAAAGGATATACAGCCAATATGT

Fig. 6.256

TAAAATAATACCTAGAAATTAAAAAGGAGTAAAGTAGAATAGTTTATCTGTTGTACTAAGACTTCATACACAATATTTC
GAAAAGTGGGAATATCTCTTGGGTGAAATACTTCATATATGTATTGTATGTACATACATGCAATATGTACACACAGAAT
TATATAAAATATATGTATATGTATACATCTATATGTACAGAACATATAATTTATTAGCATTTCTTGTAATGGCATTTT
ATTATAAATCCAATGACCTCAATTATTCTATGGGTAAGTGCTAAGTATGTCAAGAGAGCTGGCATAGAAAATGGAAAAA
GCACTACACCCCTTAGCTTGCAAGTAGATGTGAATTTTCTGCCTTTGACTTTGTTGAATCTGTGATGAATCATATGTTT
ACTCTGATTAACATAAAACATCTGGATGATCTAACTTTGGGGACACATTGCTTCATATGCACTGAATGCCTGAAAATTG
GTAGAATTTTAGATTCTTTTTCTTTATAAATGATACTACCCGAATTCCTGCAATACCTAGAGAGTTACAAGTGCTTAGC
TCTGACCTTTTATTCCATTCAATTGAAGTTGTCCACCTTTAGTTTATTACACATATGACTCTTAGTAGAGCAAACATCT
GGATTATTGTCAACAGTTCTCAAACACACCATTTGGATTTCACTATCAGACTACGAACGAACCCCCATGGAAAAAAATT
CAGGCATACAGGCTACACCCAGATCCTGAATAGCCCCTGGTTTTCTGGTTACTATTTTCTCAGGCCAGATCCAAGAAGT
CCTCTTTGGGCTTGTCTCTGGGATTCTCTGATAAAATTGGCTTTAGATTGAGACTGACGTGAAGATAGAGCTGGTCATT
GAAAGACAGAAACAGATGTGAATGAAATAATTCTCCTTTGAGACATAAAAAAATGTAAGATATACCAAGAAAGGGGAAT
TTGAGTTGTTCATTTTCTGACAACTGTGAAATTGTTGACCCGGACAAGAGAGTAGGGAGATTAACAATGTGATCATGTT
CAGGGCCCACTGTGCCACTGAATTAAGACAATGTTGGCATTCTCCTCAGTCATCTTCCGAAAATAGAGATTTAGAGTTA
GGAAAGGAATAGCCTATCCCATTAACTACGTCACTCATCTCATGCAGGTGACCTCTCATTTATGTATTTCTCAGGATAT
AGACCAACGCTGGAGTATAGAAATATTATGAGACACTTCGTAATTTTAGGTCTTCTGGTACCACATTTAAAAGGTAAAA
AGAAATAGGTAAAATTTATTTCAAGGATATATTTTATTTAACTCACTGTATCAGATTATTTTAACTTGTAAACAATATA
TATAATTATTAATGAGATATTTAACATTCTTTCCTCATACTTTGTCTTTGAAATCCTGTATGTATTTTTTACTTACATC
ACATATTAATTTGGATGCCCAATTGTCCTCAATTATACTGGATCTTTATTGGACATTTAGATCTCATAAGATTTACAAT
TAGAAATATAGATTCACTTCCCAAGTTGTTCCAAATATAGTATTATTAAATCAACTATCAGTCTTTTAATTCATAAATA
TTAAGTAAGACTAAAAATTTAGTCCTTTAGTCATACTAACCCCCTTTCAAGTGCCCAACAGCCTCTTGTGGCCATTGGC
TGCCGTATTAGACAGTTCATATTTAGATTATCTGGGTTTGAACTCAGAGTCTGCCACTCACTGACTGTATTGGCAAGTT
GTTGCCAACCTGGGCAAGTTTTTTCTCTTTTTATGCTTCAGTTTCCTCACCTGAGCACACCTTTTTCCTTGAAGAAGCT
CTCCTGAAGAAAATCCCGTATTTTTCTTCAGGACATTGCTATTTTTCCACTTAAACTCAGAACCTTAGAGTGATCACTG
AATCCTCCTCTCCCTCATCAGCTTTATCTGCCAGAAGGTCAAGTCCTCTGAGATGTACACTGTAAAATCTCATGCTTTC
CTGTGACTTCATTTCCACTGCCACTACCCTCTCCTTTTGCATGGATAGCTGCAATGATCTCCTATTTAATTAGCCTCAG
TCTCCAGACTCTAGCCATCACTCCACATTATGCCCTCTGGATGCTGCTACTGAGTTCATTTTCTGAAAATGGTATCTTT
ATCATACTCTCCACAGTTCAAACTATTTCTTCACTGCCCGTCACTTCCAGCATAAATCCATGTCCTCTGTGAAACCTTT
TTTGACAACTTCCATGCCAGATCCAAATGACAACTCCCTTCCTTGTGCTGTCATGGCCCTCCACACAGACTTCTGCCAT
AGCCCCAGAGTCCTAGTCCACATATAGGAGTACATGGGCTCTAAGCCCTACACAGACTATTTTGTTGTTGTTATTTTTG
TTTTGTTTTGTTGTTTGTTCGATATCTTGATATCTCTGTAACAGAGCACAGTGGTTTCTTGACAGTTTCTCATTTTCTG
TATGAGCTAGTGAATGACATTCCTTTGTCTGGCATTCCAGGCCTTCAGAATTAGCTCCACTTGACTCTTCTGGCTCCTT
CTCTTGCTTTTCATCCACACAGATCCTCTGGTATAGACAAACTGGTGTATTACTGTCTCACAAATATGTCCCCAATGTT
TGTGTCTCCATGCCTTGGCTCGCATCCTCTCCTCTTCTGAAGTGTCCCTGCATTCTTCTTGATCTGCCCAAATTCTACC
CTTTCTTCAAGGTCCAGTCCCTCCCTCTTCCATGATGAAGACTGCGGAGCATGATGCAATTCACTGTGTTTCAAATTCA
GGATTGGGTGGCCTGATGGAAGGAGGCCAGGCTTGGGGTCCAAGTGGATCTGTTTCTTCTGTTTTCCGCCAAGTTGCCT
ACCCTCTCTGAGGTTCACATTCCATATCTTTGAAATCACAGTAACAAAACATAAGGTGCAGAACTATCTTGAGTATTAA
GAATAACGTGTGCACTGGCATTCAGTGAGGGTTCAGATGGAGCACGTGAACTCTGTTACTTTCAGTACAGTCATAGGAT
ATGTAATCATGTAGCTTCTAAAATGTCTTTCATTGTAAGATTTTGTTGTCATTTGGATTGCTATACAATTCATGCTTGA
TTTCTAAACTAGACTGCAAGTGTCTGGACTGAAACAAATGCATAATAGAATTCTGAGCAGATATGCACAGATATATATA
TGTGTGTGTGTATGTGTATATTTGTGTGTGTGCACATGTATTTGTAGATATCAAGGGAGAGAGGCACTTTCATGTGTAT
TGATTCATTCAGTCCCCACAAGAAAGCATCATTCTAGGAGGAAGTTGAAAATGTCCCTATTTTATCTATGAAGACTCTA
GACTTGAAGAGTTTGAGTCCTTCCCAAATCAGTCCAACTCTTAAAGTGATAGAAGCAAAAAATTCACAGTGTTTACACA
TCTTTTCCAAAGCTGTTTGATGTTATTATTTCCCGCATATCACATCTGTGAGATTATCTGCCTAGATCAATATATGTGC
TAACCATCTGTCAATCTTTATCTACATGCAATTGTACCCAGGTTCAGGGATTGTGGGAGGGAGAAAGGTTAGGTGGTTG
TAAGAAGGACACTGCATAGTATGGTAGGCAAATACAGAATACCTGCAACAAGACAACCATGGCATTTCTTTTTTTTTTT
TTTTTTTTTTTTGAGATGGAGTCTCACTCAGTCACCCAGGCTGGAGTGTAGTGGCGCGATCTCGGCTCACTGCAAGCT
CTGCCTCCCGGGTTCACGCCATTCTCCTGCCTCAGCTTCCTGAGTAGCTGGGACTACAGGCCCCCACCACTACGCCCGG
CTAATTTTTTTGTATTTTTAGTAGAGACGGGGTTTCACCGTGTTAGCCAGGATGGTCTCGATCTCCTGACCTCGTGATC
CGCCCACCTTGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCGCGCCCAGCCAACCATGGCATTTTTTGTTAG
GTCACTCAGCATTGGTATCAAGAATAACAAATGACACTTGAGTTTCTTTTTCCTGAAAAAGGGCAGGAAGAGTCTAATA
GCAAGTGCAATTGCCACAGGCAACAGTGTTATAACTGGAAAATCCTAAAATGTAGATAATTTTCCTCCAAATGCTTTCT
AACAAAAGATAGACAAGTTTAAATTTGGCTGATTTCATATCTACCATAATATAGTACCAGCAATGCCAAGATACAGAAA
ACTGCCTAAGAAAAACAGAGTTCAGAAGACTTCGGATAAATTATCATCTTAAGCTTAACCTTATACCTATAAAAAATTC
AGGGATATCAGTTATGACTTCTCATTGAGTAGTCTCATGTTAGACCAAAATAGTTTCCCATATTTTGGTGAAGGACCAG
AATAACTTACCAGTAAATGAAACAATCATTTTCTTTTTGCTTTATACTCATTCTGCATGTGATTTGTATAGGGGATCAA
GTCAAAGATTGCCAGTACAAAGTAACAACCTCTCATTGTATTGCTTAAGTTAATCATTAATATTTTCCATGGATCAATA
CCCTGTAGAAGCATGAGATGCAGCAGTGATCTTCAATTTCATGTGCTTGCCAAGTAAGAACAGCCATGGGCCAGATTGT
TGGGAGCCGTGCCATGAGCTACAGACCCTCAGCTCCCCTCTATAATCAGTTCTTCCCCCACTCCAGTGCTCCCAACTTG
CCCTAAGCAGAGCGTAATTGTGGATGTGTAACTACCGCAGAGGGGAGTATGCTTTTTATGTTGTTCAATTCTTCACTTT

Fig. 6.257

CTCTTCTGCAATTGAAAGTTGAGCTGTTAGATTTCCTGAAATGAAATGGTGACAAGAGAAAGTAACAGAAGTAGCCTTT
ATAAGTGCCTGACTTCTGGGTAACAGAAGTGACTTAAAAAAAATAAAAGTACAAAACGTTGCATTTAATGTAAAAGATG
ACTGCATTAGTACAACCCTTGAAAACATTCAAGTTCTTTTCAGAATAACCACCATTAAGGAGTTGACAAATATTTTATG
CTTTAAAGTATCCTATAAAAGTTCATCACAGAAATAAAAAGCCTCCTGTTCTTATCCTTCTCAACAAAGCCCTCTTGTA
TATAGATATTGAGTCTGGCTTACCTCTGTATCCTGTTGTGCTGATAAACCAAGAACCTTGCAAAAATAGATGCACGATA
ATTGATATTTAATAAGTGAGCGAATCCATTAATGAAAAGAGTGCTATTTCAGAGAGCAGTGTTCATTTAGATAGATGGT
CCCAGCGTCATTAAGTAAAAGGATAGAGAATACTTGCAATACATTTGGCGTAGTGTTAAGAATTTTTTAAAATGTTTTA
AATGTGATCTTTTTTATGGGCTGAATTGTGTCCTCTCAAAATGTTGAAGTCCTAACCCCTGGTACCTCAGAATGTAACC
ATGGAGATAAGGTCTTTAAAGAGGTGATTAAATTAAAATGAGGTCTTTAGAGTGGCCCCTAATCCAATCTGAATGATAC
CTTTATAAAGGGAGGGAATTTGGACTCACAAAGAGACATTAGACACATGCACACAGAGACAACCATGTAAACACATGGT
AAGAAGGCAGCCATCTGAAAGCCAAGGAGACAGGTCTCAGAGAAACTAAACCTGTTGACGCCTTTGATCTTGGACTTCC
AAACTGTAGAACACTGACAAAACGTATTACTGTCGTGTAAGCCACCCAATCTGTGGTATTTTGTTATGGAAGCCCTGGA
AAATTAATACAGTCTTTTTTATTTGCTACCTTTGAAAGCCCTCTTGTCAAATGACGGTAAAGAATAGAAGACAATAAAG
TGTCAGTAATAAAGGGTGACGAGAAGAAACAACTAGAGATGTGAGAGGACCAATTTAGGAAATGGAAAGGAGAGGAAAA
AATCAACAAAGTTGAGAATGCTAATTACAAAGTGCCCACAGAGGAGGGCAAAACCAGCAAACCATTCCCTTTGTCAAAA
TCTTGAAAGATGGCAATTGAGGAACCAAGAATCTTAAAAAGGGGGGAAGGTGGATGAGAAATCTGCATATGAAGGGGAG
TCCTCCATAGGTTCTCCTCTCACCCTGCTCAGCTAGGAGACCAGTGCCACTTTATCCTCATTAGAATGGAAATTTATGC
TATAAAAATAAATAAGAGAAGTCTTAACCTGGGGATACTAGGCACATTGGAAGGTGAGAGAGTAAATGAAAGTCTATCA
ACTGAATAGTGAAGTTCTGACTTCTCTAGTAGCACCTGGGAATAAGAACTCTGTCAGTTAGCCTTATAATGCCAAGAGA
GGAGATAGAAAAATTGTTTTTCTATAAAAATTGTCTAAAAAAATATCTGCACTCCCATGTTTATTGTAGCACTATTCAC
AATAGCTAAGATTTGGAAGCAACCTAAGTGTCCCATCGACAGACAAATGGATGCAAAAAAACATGCAGTACCTATAAAC
AATGGAGTACTATTCAGCCATAAAAAAAGAATGAGATTGTGTAATTTGCAACAGCATAGTTGGAACTGGAAGACATTAT
GTTAAATAAGCCAGGTACAGAAAGATAAACTGCATATGTCCTCACTAATTTTTGGTAACTAAAATAAAAATACTTGAAC
TTGCCAGGTTCAGGGGCTCACGCCTGCAATCCTAGCACTTTGGGAGGCTGAGGCAGGCAGATTGCTTGAGGCCAGGAGT
TCAAGACCAGTATGGCCAACATAATGAAACCCCATCTCTACTAAAAATATAAAAATTAGCCAGTCATGGTGGTGCATGC
CTGTAATCTCAGCTACATGGGAAGCTGAGGCACAAGAATCACTTGAACCTGGGAGGCAGAGGTTGTGATGAGATCGTGC
CACTGCACTCCAGCCTGGGTGATGGAGTGAGACTGTCTCAAGAAAAAAACAAAACAAACAAACAAACAAAACACTTGAA
CTCGTGGAGATAGAGAGTAGGATGCCATTTATCAAAGAGTGGGAAGGGTAGTGGGGAGGAAGAATAAGATCTAGTATTT
GATAGCATAAGAGGGTGACTACAGTCAACAATAATTTATTGCATATTTAAAAGCAACTAAAAGAATATAATTGGAATGT
TTGTAACACAAAGAAATGATAAATGCTTGAGATGATGGCTCCTCCATTTATCCTGATGTGATTATTACACACTGTATGC
CTGTATTAAAATATTTCATGTGACCCATAAATTCATATACTTACTATGTACTCATAAGAATTAAAATTAAAAATAAAAA
TAACCAAGAAGAATTCTTCTTCAGAAAAATGGAATTACCACCCAGAGAAAAGACCTATAGTACTGGCATTAGATGGTTG
CCCAATAAAGAAGCCAAGGGTCTTTATTCCTCAATTACCCCATGTATTAGGCCATTATTGCGTTGCTATAAAGAAATAC
CTGAGAGACTGGGTACTTTATAAGGAAAACATGTTTAATTGGTTCACAGTTCTGCAGGATGTACAAGCATGGTGCTGGC
ATCTGCTCAGCTTCTGGGGAGGCCTCAGGGAACTTGTAGTTGTTTCAGAAGACAAAAGGGGAGTAGGTGTCTCAAATGG
TGAGAGCAGGAGTAAGGGGGGTTGTGGGAGTTAGCACACACTTTTAAACAACTAGATCTCAGAGAGCTCATTCACTCACT
CACCAAGCCATAAGGGATCTGCCCCACATGACCCAGACACCACGCACCAGGGCCCATCTCCAACACTGGGGATTACATCC
CAATATGAGATTTGGAGGGGACACCCAAACTGTATCATTCCGCCCTTGGCCCCCTAAATCTCATGTCCTTCTTACATGG
CAAAATGGAATCATCTCTTCTCAACAGTCTCCCAGAGTCATAACTCATTCCAGCATTAACTCAAAAGTCCCAAGTCCAA
ATACAAAATCTTGTCTGGAAATGAGTTCCTCCCACTTATGAGCCTGTAAAATTAAAACAAGTTATTTACTTCCAAGCCA
AGGTACAATAGAGGTACAGGCATTGGGTAAACATTCCCATTCTTTTTTTTTTTTTGAAATGGAGTCTCGCTTAGTCA
CCCAGGCTGGAGTGCAATGGTGCAATCTTGGCTCACTGCAACCTCTGCCTCCTGGGTTCAAGCGATTCTCCTGTCTCAG
CCTCCTGAGTAGCTGGGATTACAGGCACCCGCTGCCTCATGCCCAGCTAATTTTTGTATTTTTGTAGAGATGGGGATTTTC
ATCACATTGGCCAGGCTTGTCTTGAACTCCTGACCTCAGGTGATTCACCTGTCTCAGCCGCCCAAAGTGCTGGGATTAC
AGGCATGAGCCATCATGCCTGGCCAACATTTCCATTCTAAAAGGAAGAAATCAGCCAAAAGAAATGACTTCAGGCCCCA
CCCAAGTCTGAAACACAACAGGACAGTCATTAAATCTTAAAGTTCTAAAATAATCTCCTTTGACTCCATGTCCCACATC
CAGGTCACACTGATGTAAGGGTAGACTCCAAGGCCTTGGGCAGCTCTGCCTCTACAGCTTTTGCAAGGTGAAGCCTCCA
TGACTGCTCTCATGGGTTGGAGTTGAGTGCCTACGGCTTTCCCAGGTATAGGATGCAAGCTGCCAGTGGATCTACATTC
TGGGACCCACAGAACAATGGCTICCTTCCCACAGTTCCACTAGGCAATGCCCCAGGGGGGATTCTTTGTGGGCAGGGCT
TCAATCCCATATTCCCTTCTGCACTACCTTAGTAGAGGTTTTCTGTGAGGACTCTGTCCCTGTAGCATGCTTCTGCCTG
GACACCCAGGCTTTCTGATACATCCTCTGAAATCTAGGCAGAGACTAGGATCACTCTTTCCATTCTTTCTATCTGAAGG
CTTAATACCACAAGGAAGCCACAAAGGCTTACAGCTTACATGCTCCAGAGTGGCAACCTGAGCCATACCTGAGGCTCTT
TGAGCCACGGCTGGACTGGATGGACCATGATGCAAGGAGCAGCCTCCTGAGGTAGACAGTGTAGTGGTGCCCCTGTGCTT
ATCCCCTAAACCATTTAGTCCTCCTGTACCACTGGGACTGTGGTGGGAGGAGCTGCCTAGAAGATCTCTGAAATGCTGT
AAAGGCCTTTTTCCCATTATTTTGGCTATTAGCACTTGTTCTCTTTTAGTTATGCAAATTTCCCTAGCAAATGATTGCT
TGCAGCCTGCTTGAATTCCTCCCCAAAAATGGCCTTTTATTTTCTATCACATAGCTAGGTTGCAAATTTTCCACACTTG
TAAGCTCTGCTTCCCTTTTAAGTAAAAATTCCAAGTTTAGGTTATTTCTTTGCTTCTGCATCTGAGCATAGGTTATTAG
AAGCAGCCAGGTCACATCTCAATTGCTTCAGTGCTTAGAAATGTCTTCTGCCAGATACCCTAAGTCATTAACTCTTAAG
TTCAAACTTTCACAGGTCCCTGGGCATGAATATAATGTAGCCAAGTTCTTTGCTAAGGTATAACATGGGTGACCTTTGC
TCCAGTTCTCAATAAGTTCCTCACTTACACCTAATACTTTGTCAGCACGGACTTTACTTTGCAGATCACTATCAGCATT

Fig. 6.258

TTGGTCATGACCATTTAATCAGTCTCTACCAAGTTTCAAACTTTTCCTCATCTCCCTGCCTTCTCCTGAGCCCTCCCAA
TTCTTCCAACCTCTGTCTCTTACCCAGTTCCAATGTCATTTTGACATTTTCAGGTATCTTTATAGCAATGCCCCACTCC
TTGGTACCAGTCTTCTATATTAGGCTGTTGTGGCATTGCAATAAAGAAATATCTGAGACTGGGTAATTTATGAAGAAAT
AGAAAATTAACTGGCTTGCAGTTCTGCAGGCTGTACAAGCATAATGCCAGCATTTGCTAAGCTTCTGGAGAGGCCTCAG
GGAGCTTTCAATCATGGTGGAAGCTGAAGAGAGAGCAGCTATCTCACGTGGCAATAGGGGGAGCAAGAGAGAGAGCGGG
AAGGAAGGTGTTACACACCTTTAAACAAAGAGATTTTATGAGAACTTGCTCACAAAGCTATAAGGGAACCACTCCCATG
ACTCAGACACCTCCCACCAGGCCCCACCTCCAACACTGAGGATTACATCTCAACATGAGAATTGGAGGGGACATTCAAG
GAACACCACCCTATAATGAACCCCAAGACTCTACAAGTCCAGTTAAATCATTCAAGGCTCCCAGTCAGTATTTTAGTGT
CTCCCTGTTGAATATGAATAGATAGCCAAGTCTCCACAAAACTCTGAGGAAATTCTTCAACAAAAAGCCTAATGCAAAC
AAATGAAAATAATGATGATGATTAGGTTGATATAAAAAGAGTTTAAGAAACAAATAGACGTTTCAGAAAAAAATAAACTT
CGTAGCCCTAGACAGATGACAAGTTATCACATTAATGAAACAAAGGATACTATACAAAATTATCAAGTAAGAACAAAA
GAGAGTTAGAATTTAAAACAATGAAAGAAGATGCTAATAAATAAAATCAGAGATGAAAAGGGAGATGTTGCTGGGCACA
ATGGCTCACACCTGTAATCCCAGCACTTTGGGAGGCCAAGGCAGGCAGATCATGAGGTCAGGAGTTTGAGACCAGCCTG
ACCAATACGGTGAAATCCCATCTCTACTAAAAATACAAGAATTAGCCAGCGTGGTGGCACGTGCCTGTAATCCCAGCTA
CTCAGAAGGCTGAGGCAGGAGAATTGCTTGAACCTGGGAGGCGGAGGTTGCAGTGAGCCAAGATTGTGCCACTGCACTC
CAGCCTGGATGACAGAGCAAGACTCTATGGGGGGGGGGGGGGGGGAAGGAAAGATAAGGAAAGATAAGGGAGACGTTACA
AGCAATACCACAGAAATTCAAAGGATCATTAGATGCTACTAGGAGCAACTATATGCAAATAAATTGGAAAACCTAAAAA
AATGATAAATTCCTAGACAAATACAACCTACCAAGATTTAACCATGACGAAATCCAAAACCTGAACAGACCAATACCAT
CAAGATTGAAGCCATAATGAAAAGTCTCCCAGTAAAGAAAAGCCCAGGATCTGATGGCTTTACTGCTTAATTTTGCCAA
ACATTTAAAGAAGTAATATCAATCCTACTCAAACTATTCTGAAAAATAGAGGAGGAGGGAGTACTTCCACACTTATTGC
ACAAGGCCAGTATTACCCTCATACCGAAACAGACCAAAGGCACATTGCAAACAGAAAACTACAGGCCAATACTCCCAAT
GAACATTTATGCAGAAATCCTCAACAAAATACTAGCAAGCCAAATTCAGCAACACATTAAAAAGATTAGTCATCGTGAC
CAAGTGGGATTTTTCCCAAGGAAGCAAGGATGGTTCAACATAATGTAAATCAGTCAGTGTGATACATCATATCAATGAA
GGACAAAAACATATGATCATTTCAATTTATGCTGGGAAAGCATTTGATAAAATTCAACATCCCTTCATGATAAAAACTC
AAAAAACTGAGGATAGAAGGAACATACCTGAACACAAGGAAAGCCATATATGACAGACCCACAGCTAGTATCATATCGA
ATGGGGAAAAATTGAAAGTTTTTCCTCCAAGATCTGTAACATGACAGGGATGTCCATTACCCCTTGAGCAATCAGACAG
GAGAATGAAAGGATATTCAAATTGGAAAGGAAGAAGTCAAGTTATTCTTGTTTGCAGATGATATTATTTTATATTTGGA
AAAACCTAAAGACTTCACCAAAACACTACTAGAACTGGTAAACAGATTCAATAAAGTTGCAAGACACAAATTCAACATA
TAAAAATCAGTAGCATTTCTATATGCCAATGGTGAACAATCTGAAAAAGAAATCAAGAATGTAATCCCATTTATAATAG
CTACAAATAAAATACCTAGGAATTAACTTACTGAAAGAAGTGAAAGAGTTCTACAATGAAAACTATAAAACACGGATGA
AAGAAATTAAAGAGAACACAAAAAATGGAAAGATATTTCATGTTCATGGATTGGAAGAATCAATATTGTTAAAATGTAC
ATAGTACCCAAAGCAATCTTCAGATTCAATGCAATCTCTATCAAAATACCAATGACATTCTTCACAGATATAGAAAAAT
ATCTTAAAATTCATGTATAACCACAAAAGACCCAGAATACTCAAAGCTATACTGAGCAAAAAGAACAAAACTGGAGGAA
TCATATTACCTGACTTCAAATAACACTACAGAGCTATAGTAACCAAAACAGGATGGTTCTGGCATGAAAACCCAGGAAC
AAATTCATACATGTACAGTGAACTCATTTTTGACAAAGGTGCCAAGAACATACATTGAGAAAGGACAGTCTCTTCAATA
AATGGTTCTGGGAAAACTGGATATCTATATGCAGAAGAATGAAACTAGACTTCTATCTCTTGCCGTATACAAAAATCAA
ATCAAAATGGAATAAAGACTTAAATCTAAGACTTCAAACTATAAAACTATTGAAAGAAAACATTGGGGAAACTCTCCAG
GACATTGGCCTGAGCAAAGATTTTTTTTTTTTTTTTTAGACAGAGTCTCACTCTGTTGCCCAGACTGGAGGCTGAAGTG
CAGTGGTGTGATCTCAGCTCACAGCAGCCTCTGCCTCCTGGGTTCAAGTGATTCTTGTGCCTCAGCCTCCTGAGTAGCT
GGGACTATAGGTGCACACCACCATGCTGGGCTAATTTTTGTATTTTTAGTTGAGACAGGGTTTTGCCATGTTGGCCAGG
TTGGTCTCCAACTCCTGACCTCAAGTGATATACCTGCCTAGGCCTCCCAAAGTGCATGGATTGCAGGTGTGAGCCACTG
CGCCTGGCCTGAGCAAAGATTTTTTGAGTAATACCCCACAAGCACAAGCAACCAAAGCGAAAATAGACAAATGGGATCA
CATCAAGTTAAAAATACCTGCGTAGCAAAGGAAACAGTCAACAAGGTGAGGAGACAACCCACAGAATGGGAGAAAATAT
TAGCAAACTATCCATCTGACAAGGGATTAATATCCAGAATATATTAGGAGCTCAACTCCGTAGGAAAAAAAAATCTGATA
ATCCAATTAAAAATGGGCAAAACACCTGAATAGACATTTCTGAAAAGAAGACATACAAATGGCAAACAGTCATATGAAA
AGGTGTGCAATGTCATTGGTCATCAGGGAAATGCAAATCAAAACTGCAGTTAAATATTATCTCACCCCAGTTAAAATGG
CTTTTATCCAAAAGACAGGCAGTAACAAATGCTGACAAGGATGTAGAGAAAAGAGAACACTCCTACACTTTTGGTGGGA
ATGTAAATTAGTACAACCACTACGGAGAACAATTTGGAGGTTCCTCGAAAAAGCTAAAAATAGAACTCCCATATGATCC
AGCAATCCCACTTCTAGGTAGGTATACACCCAAAAGAAAGGAAATCAATATATCTGCACTTCCATATTTATTGTAGCAC
TATTCACAGTAGCCAAGATTTGGAAGCAACCTAAGTTTCCCTCAATAGACGAATGAATAAAGAAAATGTGGTACATATA
CACAATGGAGTACTGTTCGGCCATAGAAAGAAATGAGATCCTGTCATTTGCAACAACATGGATGTAACTGGAGGATGTT
ATGTTAAATGAAATTATCCAGGCACAGAAAGATCATCTTCACGTATTCTCACTATTTAAGGGAGCTGGAAATTAAAAGA
ATTGAGATCCTGGAGATAGAGATTAGAGTGATGGTTACCAGAGGCTAGGAGGTGTAGTGGATGGAGGAAGTAAGAAGT
GGGGATGTTTAATGGGTACAAAAATATAATTAGATAGAACAAATAAGATCTGGTATTTGATAGCTCAACAGGGTGACTA
CAGTCAACAGTAGTTTATCATACATCTCAAAATAACTAAGAGAATATAATTGAATTGTTTGTAACTTAAAGGGTAAATG
TTTGCAGTAATAGATTCCCTGTTTACCCTGATATTATTATGCATTGCTTGCCTGTATGAAAATATCTCGTGGGCCCCAT
AAATCAATCAATCTATCTATCTATCTGTCTGTCTGTCTGTCTGTCTGTCTGTCTGTCTACCTACCTACCTATTATGTAC
CAACAGAAATTTAAAATTTAAAAAATTATGTTTTGGAGACGTCTAGAAAAATTGGTGATAATGTCACATAATCAAATAA
AGAAGGTAATATATAACTCCAGAAAAAACAAAAAGTTGTTCCATAAATAAAACATAATTATGGCACATCATTTGGTTTA
TCAGTAAACGTTACTTTGCAGGGATGATACAATAGAACACTGAATGTTTATTTAGCCAATAATTGTTATATAACTGTAA

Fig. 6.259

TGGGAGGATAGAAAGAGGGAAGTAGAGAGGTGAAATGGTGAAAGAGTGTGAAATCTTCATCATTCATAATAGAAAGTCA
GTTAGAAATATGGAATTTAAAAAAAAATAGTTTGAGAGCCTTATGAAGAGGGTGGCACAAAAGACTCCTGCAACTTGTT
CTAAGCCCTGTGCATACAATTTGGGGTGTGTGGGTTAGTTTAATAATTATTTTGTAAATATAAAGGAACCAAAGCAAC
CAAATTTCTGGATATAAATGTCCTGTGTTGATTATCATGATAATAGGTAGACATCTTGGATTGGAATTTTTTAACATTT
GAATGGAATACCCCATTTCCCCTTTAATCTTTGATAGGTTTAACATGGTCACTAACTGTAGAGTAGGGACTTGTCGTGC
TCTTTATTGGCAGAAGTGTGACTGGCTACCCCTGACCGTTCGGGAGAGGAGACATGTACACCTGGCCAATCAGACCAGC
AGATTCACTGCTGGTGATGAGTGAAGTTGCAGATGTCAGGGACAGCTTGTGCTGTTCAGGTTAAATTATCTCACTTCAG
CTCTCACTCTAAAGATGATTTATAACTAGTATTCTTCACTTTCAGTCTTTTCACTAGCAAGCAGGATACTTATGGAAAA
TAATTAGGATGAAAAGAGGTCACTCTATCACAATAGTGAGTTTTTGAATTCACACTTTAAACGAGATGATCCTCCTTAG
GAAAAGCAAAATAAAACGAATTTCCATGCCATTGTTGATTCTACTTGAGTTAAATACTAACATAAAAAGTTGGTTTTCT
GTGCATAGCCTGGAGAATCTTGTCTCTCAGAATTATCATGCCCCAGGCCATTCCTTGCAGATTTTGAATTCCCTTTGTC
TCAAAAACATCCAGAAAATCTTTTTGACCTTCGGGTGGTTGGCAGAACATGTGTTGTGAGGGCACCTCAGTTTAGAAGA
AAAGCCCTGAACTTAGTTCAAAAGAAGGGCTTTCCAGCATGCTATTCATTCAGCTTAGGACTGCCAGGCTTCCTGAAAG
ACAGGTGTGTCAGAAACAAAGTAAATAAACAGAAACTCACAATGTCCAGACCTTTCTCTCCAGAGCAGCACAGTTCCCT
TGCTGAGCGGCAACAGCCAAGGCTTTAAGCTGTTCCCTCTCCCTTTTCTGTTAATTGAGAAAACCAATTGCTGCAAGAG
CAACATCAGCAGAGCTAAATGTAAATGGAGTTTAATAGAAAGAGACAAATAACCCACTGAGAACCCCTAACATTTCAGT
GTAATACCCCAGAGTTCCACACCATAAACTTGGTATTCCAGTATAAAGCTCATCTCTCAATTGCACGCCACCCTCCCCC
ATCTTATTCACTCTCTTGCATTATTAAAGGAGTGATCTCCCCCATGGGATCAAAATAGATAGATAGATAGATAGATAGA
TAGATAGATAGATAGATAGTCTCTAATATATGTATTAGAAACAGAGTCTGTGTTGCCCAGGCTGGAGTGCAGTGGCATG
ACCATAGGTCACTGTAACCTTGAACGTTTGGGCTCCAGCGATCTACAGGTGTGCAGGTCTACAGGTGTGCACCACCATG
TCCAGCTAATTTTTAAAATTTTTGTAGAGACAGGATATCTCTATGTTGCCCAGGCTGGTCTTGAACTCCTCTTCTCAAA
TGATTCTCCTGCCTTGGCCACCCAAAGGGCTGAGAATACAGGTGTGAGCTACCATGCCCAGCCATAAACATGAAATTTA
CTTATGTTTTATGTATACCATGTGCACATAGCCTGAAGGTAATTTACACAATATTTTAAATAATTTTGTGCATGAAAC
AAAGTTTGTGTACACTGAACCATCAGCAAAGGAGTCACTATCTCATGTCAGTGACCAAAAAGTTTTAGACTTTGGAGCA
TTTTGGATTTCAGAGCATCTTGAATTTTAGGTTTTTGGATGGGGATGCTCAACCTGTATATATGCATACATGCATATTT
ATGTAACATACATAATGGTACCTAAAACTTAGCAAATACTCATATGTTAGCTATTATTTTTGTTGGTATTACTATGAAT
AATAACTATTAGCATTTTCTCTCATATCTAAAATGCAGTTGGTAAATGCTAAACTCATAGGAATGTTGTAAAGATTTAT
TTTTTTATTTTTTTTATTATTATACTTTAAGTTTTAGGGTACATGTGCACATTGTGCAGGTTAGTTACATACGTATACA
TGTGCCATGCTGGTGTGCTGCACCCACTAACTCGTCATCTAGCATTAAGTATATCTCCCAATGCTATCCCTCCCCCCTC
CCCCCACCCCACAGCAGTCCCCAGAGTGTGATGTTCCCCTTCCTGTGTCCATGTGATCTCATTGTTCAATTCCCACCTA
TGAGTGAGAATATGCGGTGTTTGGTTTTTTGTTCTTGCAATAGTTTACTGAGAATGATGATTTCCAATTTCATCCATGT
CCCTACAAAGGACATGAACTCATCATTTTTTATGGCCGCATAGTATTCCATGGTGCATATGTGCCACATTTTCTTAATC
CAGTCTATCGTTGTTGGACATTTGGGTTGGTTCCAAGTCTTTGCTATTGTGAATAATGCCGCAATAAACATACATGTGC
ATGTGTCTTTATAGCAGCATGATTTATAGTCCTTTGGGTATATACCCAGTAATGGGATGGCTGGGTCAAATGGTATTTC
TAGTTCTAGATCCCTGAGGAATCGCCACACTGACTTCCACAATGGTTGAACTAGTTTACAGTCCCACCAACAGTGTAAA
AGTGTTCCTATTTCTCCACATCCTCTCCAGCACCTGTTGTTTCCTGACTTTTGAATGATTGCCATTCTACCTGGTGTGA
GATGGTATCTCATTGTGGTTTTGATTTGCGTTTCTCTGATGGCCAGTGATGGTGAGCATTTTTTCATGTGTTTTTTGGC
TGCATAAATGTCTTCTTTTGAGAAGTGTCTGTTCATGTCCTTCGCCCACTTTTTGATGGGGTTATTTGTTTTTTTCTTG
TAAATTTGTTTGAGTTCATTGTAGATTCTGGATATTAGCCATTTGTCAGATGAGTAGGTTGCGAAAATTTTCTCCCATT
TTCTAGGTTGCCTGTTCACTCTGATGGTAGTTTCTTTTGCTGTGCAGAAGCTCTTTAGTTTAATTAGATCCCATTTATC
AATTTTGGCTTTTGTTGCCATTGCTTTTGGTGTTTTAGACGTGAAGTCCTTGCCCATGCCTGTGTCCTGAATGGTAATG
CCTAGGTTTTCTTCTAGGGTTTTTATGGTTTTAGGTCTAACATGTAAGTCTTTAATCCATCTTGAATTAATTTTTGTAT
AAGGTGTAAGGAAGGGATCCAGTTTCAGCTTTCTAAATATGGCTAGCCAGTTTTCCCAGAACCGTTTATTAAATAGGGA
ATCCTTTCCCCATTGCTTGTTTTTCTCAGGTTTGTCAAAGATCAGATAGTTGTAGATATGCGGCGTTATTTCTGAGGGC
TCTGTTCTGTTCCATTGATCTATATCTCTGTTTTGGTACCAGTACCATGCTGTTTTGGTTACTGTAGCCTTGTAGTATA
GTTTGAAGTCAGGTAGCGTGATGCCTCCAGCTTTGTTCTTTTGGCTTAGGTTTGACTTGGTGATGCAGGCTCTTTTTTG
GTTCCATATGAACTTTAAAGTAGTTTTTTCCAATTCTGTGAAGAAAGTCATGGGTAGCTTGATGGGGATGGCATTGAAT
CTTTAAATTACCTTGGGCAATATGGCCATTTTCACGATATTGATTCTTCCTACCCATGAGCATGGAATGTTCTTCCATT
TGTTTGTATCCTCTTTTATTTCATTGAGCAGTGGTTTGCAGTTCTCCTTGAAGAAGTCCTTCATGTCGCTTGTAAGTTG
GATTCCTAGGTGTTTTATTCTCTTTGAAGCAATTGTGAATGGGAGTTCACTCATGATTTGGCTCTCTGTTTGTCTGTTG
TTGGTGTATAAGAATGCTTGTGATTTTTGTACATTGATTTTGTATCCTGAGACTTTGCTGAAGTTGCTTATCAGCTTAA
GGAGATTTTGGGCTGAGACAATGGGGTTTTCTAGATATACAATCATGTAGTCTGCAAACAGGGACAATTTGACTTCCTC
TTTTCCTAATTGAATACCCTTTATTTCCTTCTCCTGCCTAATTGCCCTGGCCAGAACTTCCAACACTATGTTAAATAGG
AGTGGTGAGAGAGAGCATCCCTGTCTTGTGCCAGTTTTCAAAGGGAATGCTTCCAGTTTTTGCCCATTCAGTATGATAT
TGGCTGTGGGTTTGTCATAGATAGCTCTTATTATTTTGAAATATGTCCCATCAATACCTAATTTATTGAGAGTTTTTAG
CATGTAGGGTTGTTGAATTTTGTCAAAGGCCTTTTCTGCATCTATTGAGATAATCATGTGGTTTTTGTCTTTGGCTCTG
TTTATATGCTGGATTACATTTACTGATTTGTGTATATTGAACCAGCCTTGCATCCCAGGGATGAAGCCCACTTGATCAT
GGTGGATAAGCTTTTTGATGTGCTGCTGGATTTGGTTTGCCAGTATTTTATTGAGGATTTTTGCATCAATGTTCATCAA
GGATATTGGTCTAAAATTCTCTTTTTTGGTTGTGTCTCTGCCCGGCTTTGGTATTAGAATGATGCTGGCCTCATAAAAT
GAGTTAGGGAGGATTCCCTCTTTTTCTATTGATTGGAATAGTTTCAGAAGGAATGGTACCAGTTCCTCCTTGTACCTCT

Fig. 6.26C

GGTAGAATTTGGCTGTGAATCCATCTGGTCCTGGACTCTTTTTGTTGGTAAGCTATTGATTATTGCCACAATTTCAGAT
CCTGTTATTGGTCTATTCAGAGATTCAACTTCTTCCTGGTTTAGTCTTGGGAGGGTGTATGTGTCAAGGAATTTATCCA
TTTCTTCTAGATTTTCTAGTTTATTTGCATAGAGGTGTTTGTAGTATTCTCTGATGGTAGTTTGTATTTCTGTGGGATC
GTTGGTGATATCCCCTTTATCATTTTTATTGCATCTATTTGATTCTTCTCTCTTTTTTTCTTTATTAGTCTTGCTAGC
GGTCTATCAATTTTGTTGATCCTTTCAAAAAACCAGCTCCTGGATTCATTAATTTTTTGAAGGGTTTTTTGTGTCTCTA
TTTCCTTCAGTTCTGCTCTGATTTTAGTTATTTCTTACCTTCTGCTAGCTTTTGAATGTGTTTGCTCTTGCTTTTCTAG
TTCTTTTACTTGTGATGTTAGGGTGTCAATTTTGGATCTTTCCTGCTTTCTCTTGTGGGCATTTAGTGCTATAAATTTC
CCTCTACACACTGCTTTGAATGCGTCCCAGAGATTCTGGTATGTTGTGTCTTTGTTCTCGTTGGTTTCAAAGAACATCT
TTATTTCTGCCTTCATTTCATTATGTACCCAGTAGTCATTCAGGAGCAGGTTGTTCGGTTTCCATGTAGTTGAGCGGTT
TTGAGTGAGATTCTTAATCCTGAGTTCTAATTTGATTGCACTGTGGTCTGAGAGATAGTTTGTTATAATTTCTGTTCTT
TTACATTTGCTGAGGAAAGCTTTACTTCCAAGTAAATGGTCAATTTTGGAATAGGTGTGGTGTGGTGCTGAAAAAAATG
TATATTCTGTTGATTTGGAGTGGAGAGTTCTGTAGATGTCTATTAGGTCTGCTTGGTGCAGAGCTGAGTTCAATTCCTG
GGTATCCTTGTTGACTTTCTGTCTCGTTGATCTGTCTAATGTTGACAGTGGGGTGTTAAAGTCTCCCATTATTAATGTG
TGGAAGTCTAAGTCTCTTTGTAGGTCACTCAGGACTTGCTTTATGAATCTGGGTGCTCCTGCAGGTGCATATATATTTA
GGATAGTTAGCTCTTCTTGTTGAATTGATCCCTTTACCATTATGTAATGGCCTTCTTTGTCTCTTTTGATCTTTGTTGG
TTTAAAGTCTGTTTTATCAGAGACCAGGATTGCAACCCCTGCCTTTTTTTGTTTTCCATTTGCTTGGTAGATCTTCCTC
CATCCTTTTATTTTGAGCCTATGTGTGTCTCTGCATGTGAGATGGGTTTCCTGAATACAGCACACTGATGGGTGTTGAC
TCTTTATCCAATTTGCCAGTCTGTGTCTTTTAATTGGAGCATTTAGTCCATTTACATTTAAAGTTAATAGTGTTATGTG
TGAATTTGATCCTGTCATTTTGATGTTAGCTGGTTATTTTGCTCGTTAGTTGATGCAGTTTCTTCCTAGTCTCGATGGT
CTTTACATTTTGGCATGATTTTGCAGCGGCTGGTACCGGTTGTTCCTTTCCATGTTTAGCGCTTCCTTCAGGAGCTCTT
TTAGGGCAGGCCTGGTGGTGACAAAATCTCTCAGCATTTGCTTGTCTGTAAAGGATTTTATTTCTCCTTCACTTATGAA
GCTTAGTTTGGCTGGATATGAAATTCTGGGTTGAGAATTCTTTTCTTTAAGAATGTTGAATATTGGCCCCCACTCTCTT
CTGGCTTGTAGGGTTTCTGCCGAGAGATCTGCTGTTAGTCTGATGGGCTTCCCTTTGAGGGTAACCCGACCTTTCTCTC
TGGCTGCCCTTAACATTTTTTCCTTCATTTCAACTTTGGTGAATCTGACAATTATGTGTCTTGGAGTTGCTCTTCTCGA
GGAGTATCTTTGTGGCGTTCTGTGTATTTCCTGAATCTGAACGTTGGCCTGCCTTGCTAGATTGGGGAAATTCTCCTGG
ATAATATCCTGCAGAGTGTTTTCCAACTTGGTTCCATTCTCCCCATCACTTTCAGGTACACCAGTCAGACGTAGACTTG
GTCTATTCACATAGTCCCATATTTCTTGGAGGCTTTGCTCGTTTCTTTTTATTCTTTTTTCTCTAAACTTTCCTTCTCA
CTTCATTTCATTCATTTCATCTTCCATTGCTGATACCCTTTCTTCCAGTTGATCGCATCAGCTCCTGAGGCTTCTGCAT
TCTTCAGGTAGTTCTTGAGCCTTGGTTTTCAGCTCCATCAGCTCCTTTAAGCACTTCTCTGTATTGGTTATTCTAGTTA
TACATTCTTCTAAATTTTTTTTAAAGTTTTCAACTTCTTTGCCTTTGGTTTGAATGTCCTCCCGTAGCTCAGAGTAATT
TGATCGTCTGAAGCCTTCTTCTCTCAGCTCGTCAAAGTCATTCTCCATCCAGCTTTGTTCTGTTGCTGGTGAGGAGCTG
CGTTCCTTTAGAGGAGGAGAGGCGCTCTGATTTTTAGAGTTTCCAGTTTTTCTGTTCTGTTTTTTCCCCATCTTTGTGG
TTTTATCTACTTTTGGTCTTTGATGATGGTGATGTACAGATGGGTTTTTGGTGTGGATGTCCTTTCTGTTTGTTAGTTT
TCCTTCTAACAGACAGGACCCTCAGCTGCAGGTCTGTTGGAGTACCCTGCAGTGTGAGGTGTCAGCCTGCCCCTGCTGG
AGCCTCCCAGTTAGGCTGCTCGGGGGTCAGGGGTCAGAGACCCACTTGAGGAGGCAGTCTGCCAGTTCTCAGATCTCCA
GCTGCGTGCTGGGAGAACCACTGCTCTCTTGAAAGCTGTCAGACAGGGACATTTAAGTCTGCAGAGGTTACTGCTGTCT
TTTTGTTTGTCTGTGCCCTGCCCTGCCCCCAGAGTTGGAGCCTACAGAAGCACGCAGGCCTCCTTGAGCTGTGGTGGGC
TCCACCCAGTTGGAGCTTCCCGGCTGCTTTGTTTACCTAAGCAAGCCTGGACAATGGTGGGCGCCCCTCCCCCAGCCTC
GCCGCTGCCTTGCAGTTTGATCTCAGACTGCTGTGCTAGCAATCAGCGAGACTCCGTGGGGTAGGACCCTCCCAGCCAG
GTGCGGATATAATCTCGTGGTGTGCTGTTTTTTAAGCCCGTCGGAAAAGCGCAGTATTCGGGTGGGAGTGACCCGATT
CTCCAGGTGCCATCCGTCACCCCTTTCTTTGATTAGGAAAGGGAACTCCCTGACCCCTTGCACTTCCCGAGTGAGGCAA
TGCCTCGCCCTGCTTCGGCTTGTGCACGGTGCGCGCACCCACTGACCTGCGCCTACTGTCTGGCACTCCCTAGTGAGAT
GAACCCAGTACCTCAGATGGAAATGCAGAAATCACCTGTCTTCTGCGTCGCTCAGGCTGGGAGCTGTAGACCGGAGCTG
TTCCTATTCGGCCATCTTGGCTCCTCCTGTTGTAAAGATTCATAAAGTTGATAGATTTTAAATCCTTGGAACTGTGCCT
TGTATATGGTGAAGAATAGAAAAGTGCCATCTTTCATTATTTTCACCAATAGTAATAAAGCACAATTGTATAGTAAACT
TGTAATATAGTATATGCTCAATAAATTGTTAATTAACTTTTGTGTTCATTTCCTAGTGCATATATATCACTAAGGGAAT
TGATACTAATGTCATTGCATGCATTAATGGTAACATTAATTATCTTCTTACACATTGGGCAAAAAAAGAAAATACCAGG
CTGTCAGAACATCTTGGCCCAGAAACCTCCCTTCAGCAAAAAGACAAAAATGTGAGTGAAGAGAATATGCCTTTGAGAA
TTGAGAGGGTTGCATTTTGCCTATTATGTATAGAGATTTGCCAATTTCCCTTTCACAAACTATGACAGTGACACTGATT
CTGGATGAGCAACCTGCATAATGCTTCAGGGGCACATCTCTTCTTCTAAGGCTGCAGGCTTGCCGATGAGACAGAACAC
AGCCTCAATTCCATCTGCTGTCATTTATCTGCCAATATAGATAGCAGATCTCTGTGGGTCTTGGACTGCTCAAACGACA
CAGTATATTTTAGCAACTGAAGGGGAACCACTTGAGATCACTAAAGGTGGAAAACACCTGATGACACCTTCAATCGAAA
GAAATGAGTATCCAAAATCTGAAACATTAGGCCCCACAGTACAATGGCTCTAGTGACAGATAAAAAATACTATTTCTAA
CCCTTATAGAATGAACTTGTTTTCAAGAGCTCAAAGAAAACTTTTATCACATTTATCTTCCACTTTTAATTAAAAAGAT
TATTTCTGAAATGCTAAAACTTTTGTTTTATTCATGTTTTAGAGGAAAGGAGAGGAAGAGAAACCACCTGTTACTTTCT
TGATGCTGTACCTGGCACCTGCCCTTGATTGAAGATGAGTTTTGCATGGTGTCTGAACCAAAAATAACAAGTCCTTTAA
AAATTATTGTCCTAAAAACCAGCAGATCAAACTACTTTCTTTTTTCTCAGAGGATTCACAAAGTATATTGTTTGGAAAG
GCAAAGTCAGTGAAGAAAAAAGAGGAACGTCCCTAAATATTGGTGTTGTCATTTATAATGTAAGACTTCACTAGAATGA
GATTATCTCAGGTGTGAATGGAGAAAGGTAGGATGCATGCAGTGTGGAAGCAGCCAGATTCAACACACTAAAATCATTA
ACACATATGTTTGTGTAGTTGTGTGTAATTTTGAGGGGGAGAAGAGGAATTTTGCCTTTAATTCTCACTCCAACCACTT

Fig. 6.26j

GACCAATAATTGGGAATCATCTCTTTTATCCCCTATTTTTGCCCCTTGTTCTATATGTTATTTTTTTGAGATGTTCTTT
ATCATAAAGTGCCTTTACGTAGGCAGTATATAAGCAGTATGCAAAATTGAGTCCCCATCTCTGGCATTGATCTCAAAGT
CCTTTTTTTGTTGTCAAATACCTTTGAATCTGTGTCTTCAAACTCTGCTTGGGTTCACTCAAATCAGTATATTTCTTTC
CATATGTAGGTCTTTTGATTTTTGTCCTAGGTTGACTCTTTCCTGAGTTCCCTTTTACATCAGAAATTAACATTTTCCT
AATTATCCAGTCTAGAAATTTTAGTCATCATTACTTTTTCTTTTCATTCATTTTTAATATCCAATCCATCCTCAGGTTC
AATTAATCCTTTCTTCAAACTCTACTTCCCCTGTCTTTCATTCTTCAGCTGAGTTCACATCACATAGGTCCTCATCCAT
TCATGCCAGGACTTCGACAGCAGATACTAACAGGCATCAACCTCCAGACTCGTTAAATTAATCCTACACACTATTTCCA
GGTGACTTACTGAAAGTCTTCATTTGATCCTGTCACTCTCCCTTTCAGGACTCTTCCAGCAGGTCACAACTCACATATC
TGCAGGAGCCAGGAGCTATTCAAATGGAGAAGGCAGGGGGATCCTGGGCAAGGAGGGTATAGATATATCCTCACCTGCA
TGCGCAGTGACTTCTGAGCTCCTCACAGTTGTTATCATGTGAAAATATAGGCCAGGGTTGGCAGGCTTTCTGATTTTTC
AAGAGAACACAGAAATTAGACTTTTAAAAAGTTGATTCAATAAATATGACAAGGTATATTAGGGTTCTCTGGAAGAACA
GAATTAATGGAATATATATATATATATATATAGACACACACACATATATATAAAGGGTAGTTTATTAAGTATTAACTCA
CGTAATCACAACGTTCCACAATAGGCCATCTGTAGGCTGAGAAGCAAGGAGAGCCAGTCCAAGTTCCAAAACTGAAGAA
CTTGGAGTCCAATATTTCAGAGAAGGAAGCATCCAGCATGGGAGAAAGATGTAGGCTGGGAGGCTAGGCCAGTCTTTCT
TTTCACATGTTTCTGCCTGCTTATATTCTAGCAGCGCTGGCAGCTAATTAGATTGTGCCCACCCAGATTAAGAGTGGGT
CTGCACACTGACTCAAATGTTAATCTTCTTTGGCAACACCCTCACAGACACACCCAGGATCAATACTTTGTATCCTTCC
ATCCACTCAAGTTCACACTCAGGATTATCACAGAAGGCATACTATGTTCTGAGCTTTCTTCTCTGTACTGTAAAAAAAA
ATACAGCAGTGAATGAAACAGACAAAAATTCTACCCTTGTGGAGTTTATATTCCAGCTGGGAGTGAAAGATGAAAATAA
TTTATATATTATATATATATGTAATATATAGAAATATATATTTATTTATATATCTATATTTAAAAATATGTATGGGGAA
GATTTGTGATAAATACCATGAAGAAAAGTGTATTAGAGAAGAGGTTAACGAATGTGTGTGTGGTGGGTGGTGGAATTT
TAAGTGGTGTTAGGAAAGACCTCATTCAGAAGGTAGCATGTGAGCAAACATGAAGGAGGTACAAAAAGTCCTCCTGCCA
TCATGGAGGGACAGTAAGAAGGTCCTGGTGGCTGGAGTGAAGTAGCAAAGTGGAGAATAAGGGAAAAAGTTGGAGATGA
AACAGAAGGGGACTCAGAGCTCTATTCATCTTACTAGTGGCTTTGCCTTATTAAACAAAGACCTTTAAACAGATGTTAA
CAAGATCCCTCTGACTCCTAATTTGGAGATGACTTTAGGGGAATAAGGGAAGAAAGAGAGATCAGTGAGAAGCAGAATT
CTTTTTTTCAGGGTCTTTCTCATTGTTGTTCTCACTACCATCATCCTTTGGACAGACAGGTACTCTTTTTAAGTCAATT
TGATCTAAATGTGGGTTTTAAAAAAATCCTTTTCTTTGTTTAACAGCTGAGACAAAGCAGGAATTTTAAAGCAACACTT
TACTGACAAACTATGTAGAATCAAAGTAACATGAAACTAGATAATTTGTTCTATCATAGGAGATATCTTATTCAAATGA
AGTCCCCTAGGAGAAACTCTTCTTCTGACTCCCTCTTCACACTGGACAGCAGAGGCCATCTTTAACTTTCCCACAAGAG
AGGGCTCCACAAGACATAGTCATTACTCAAGAGATTGAGAATCAAGACAGAGAAGTTTAGTCTCCTCCTATGCTTACTT
AAGGCTCACCTCCTTAACTCTGATTTCCTCTCTGGGAAATCTCTATTCCTCTGGTGACTGTATACTGGGATTTAGTACA
ACATTTAGGGAAGTGCAACCTACTCAAAATATCCAAATATAGCACCATAATTCTAACACTCTAATAAGAGGCACATCCA
CGTATTTTCAAGGGTGGGAAAGATCATTAAATAACAGTATGAGTTATATTATGTTCTCAGTAAATATTAGTTACCTTT
TCTTCCTCTTGGAGTGACTTTTACCACCCTCTGTAACTCATCTAGCCTTATCTAATGGGAGGCCATTTTATTTTGGGAT
GGCATGACTACATAATTTCAAGCTATTTCTTATGTTATTTGCCGCCTCTTAAATATCTTCCCCTTACCTCCTTCTCATA
CAAACCTTAAAGTTCTTCATAAGTCACAACAACTTATAAGGTCTTTTACCTAACTGAACCGATGTCTTCTCTTTGCTGT
ACATTTACATGTCTATAACAATCATTTTTCATTTAAATATGAAACTCTTGGATATAAAAATATTAACTTGAAAAATAGT
AACCCTGATTTGCTCTTTATACTTTAACACCTTTTGTTTCTTTGTTTATAAATCCACTGTGCAAAGCTGTTTATGCAGC
AGAAATTTAGTAAACATTCTGTGAATGTCTGAAACATCCATTCATCAATCCACTCACACAAAAACATTAACATATACTT
TGTCATGCATTGTTAGATGTTCAAGCATGAAAATCAAACAGTAGTGAAGAATAATTTATTGTAAATATTATTTTTCAGG
GAAGAGAACACTTTAGAAATAACTTCTTGAGAAATTGGTTTGGGAAAATAGTATATCCAAAATTAGAGAGCGCCATCTT
GTGGGCAAGTGAGTATCTCACACAAATAATAACTATTATAAGTTGCAAAAATAGAATTTCTTCTCTTTTTTTCTTACAA
TTCAAATCTCCTTTTTACTGTAAATATTTGTATTGATGCATAATAATTATACATATTTAGGAGGTACATGTGATATTTT
GATTCATGCATACAATGTGTGATGATCAAATCAGGGTATTTAAGATAACCATCACCTCAAACGATTATTATTTTTTGTG
TTGGGAACACTTCAGCTCTTCCAGATATTTTGAAATATACAATAAATTATTGTTAGCTATAGTCACCTTTCTGTGTTAT
CGAACACTAGAACTTATTTCTTCTATCTAACTATATGCTTGTACCCATTAACTAACCTCTTTTCATCCCACCTCTCTCT
TCCCAGCCTCTGGTAACCATCATTCTACTCTCTACCTCCAAGAGATCCACTGTTTTAGCTCCCACATATGAGTGACAAC
ATGCCATATCTGTCTTTCTGTGCCTGGCTCATTTCACTTATTGTAATGACCTCCAGTTCCATCAAGGACACTTAGGTTG
ATTCCATATCTTGGCTATTGTGAATAGTGCTGCAATAAACATGGGGGTGCAGGTGTACTTTTAATATACTGATTTCCTT
TCCTTTGAATAAATTCCTAGTGGTGGGATTGCTGGATCATATGATAGTTTTATTTTTAGTTTTTTGAGAAACTTCCATA
CTGTTTTCTATTATGGCTGTACTAATATACATTCCCATCGTCAGTGTATAGGAGTTCTCTTTTCCCAGCACCCTTCCCA
GCATCAAATAAAATCTTTTAAAGAGGCTCTGTCTGTCCTAGCTGAAGAACTGAAAATATATATTAAAATTTTATATAAT
TAATGATATTTTAAACAATCCTTAGAAACTAATTGTAATATTTACAATTTACTTTTAAATTTCTTGAATAGCTAAAAAT
GAAGGCTCAGCAAAGAAATTACTAAATATCATAAACATGACATACTTTTCATAAGAAAGCTTATAAAACTGTTAATGAA
AAAGGAGACAGAATTCTTAGAGATTATCTCTTTAAGGGGTCTATCACTTTTTGGGTATCTCAGGGTGCTTTGAAAATTT
GACTAGATCAAATCTCTCTTGAAAAATGTAAATGTACACACAATTTTTCATATAGTTTCAGGGGCTTCACCAACTCCCC
TGCGGTTGACTCATGAACCCATTCATGAACTTCATATTTTAAATACTTACATTTTACATAATATACAATTAAAGTCTAG
AAGGTTTGGGGGTAAAAGCTAAAATTTGATTCCATTATCTCTTCATCCCCAAAACCTCATGCTCACACAATTTTATAAG
ATTGATATAGATAGATCAAATCATGATGAAATATATTTGCTACATCGTTTGAGTTCCTAAGCTAAATCTTAAAACTTAT
AGTTTCTAGGCTATTAATGTTCCTTACATCAACAAAAATAAATATTTAATATTAGGTTCATGTCATTCATGGTATATCT
GTCACAAATACCCTTGATGTCCATTCTATCCAAAATAAAAGATGTTATTATGGATTTCCTTCTTTTTCAGGGCTGGGTA

Fig. 6.262

GAATTCTAGTGTGTGAGTGTGTGTGTGTGTGTGTGTGTACCACATTTTCTTTATCCATTCATTGTTGATGAACACTTAG
GTTGATTCTGTATCTTTGCTATTGTAAATAATGCTATAATGAACATGGGAGTGCAAATATCTTTTTGACACACTGATTT
CACTTCCTTTGGATATATACCTAGTAGTGAAACTGCTGGATAATATGGTAGTACTATTTTTAGCTTTTAAAGAACCTCG
ATGCTGTTTTCCATAATGGCTATGTGAATATACATTCCCACCAACAGTGTAAACATCTTCCCTTTTCTCCACATCCTTG
CCATCTTTCATCTTTTTTGTACTAACAGGTATGAGTTGATATCTCATTGTGGTTTTAGTTTGCATTTCCTTGATTATTA
AGTGATGTTGAACATTTTTTTCATATACCTGTTGGCCATTGGTATGGCTTCTTTTGAGAAACATCTGTTTAGATCCTTT
TCTTGTTTTTTAATCAAGTTATTGTTTTCATACTATTGACCTTTTTGAGTTCCTTATATATTTGGAAATCCTGTCAT
TTGGGATCACATGGATGAATCTGGATGACGTTATGTTAAGTGAAATAAGTCAGGCACAGAATGACAACCACCACATGAT
CTCATTTAAATGTGAAAGCTAAAAATGTCAAACTCATAGAAACAGAATAAAATGGTTGTTAACCAGGGCTGATGGGTGG
GGGCTGAAGACTGGGGCAATGTTAGTCAAAGGACACAAAATTTCAGTTAAACAGGAGGAATAAGTTCCAGAGATCTATT
GTACCTCAGGGTGACTATAGTTAACAACAATACATTGCATACTTGAAAATAGCTAAAAGAGTAGATTTTTAGTGATCTT
GCCACAAAAAAAGATAAGTTTGTGAGGTAATGTATATATTAATTAGCTTGATTTAGCCACTTCACAATGTATACATCTA
TGTAAATAAAATGTTTTACATCATAAATATATACATTCTTATTTGTCAATTTTTAAATATATATATACCTTTTAGAATT
ACAGCTTAGCCTTGGGTTAATGAAGTCATGACAGTACGAGGTTTATAAAACTGAACAAAGAATCCTAACCATACGCCAC
CCTAACTATGGAAATACAATGGAACTATTAGTTTTCTGTTTCCTCTTTCTTTCTCATTGAGAAATCATGTCCCTTCATA
AAATCCATTTCTCTGTGTCAGATCATTGGAGCTCTTTTTTTCTCCATTATTATTTATAATAGTTAGTCTTATTCATCTC
TTGCTAGTATGAACCTTAGTAACCTAGGTTAGTATTTCCCAAAGTAGGTTTTGTGGAATGCTAATATCAACAGGTACTA
CCTGCAAAATGGTTGCATGGTCAAATAAGCTGAGCTTCATAAAATTAAACTGATATATTACTGGAAGCTAAATAAATAT
TGTAAATATCCAGGAAGGAGATACATAGGCAAAATATTCCAAACTTTATTAAATAGTTAACTTTTTGTTTGCTTACAGA
GTAATGGGGTTGGGTGCTCCACAGAGAACATTATGGCACATGCTGAACTAGAGATAAAAAAGATAGATTTAAAAATATA
TGCAGATTGCTTGGACAAATTTCAGCAGGATAGTGAGAAATTGATTTCTAGTGTAGAATATTCTGGGAAATGAGATTTT
TTTACATTACGTGATCCTAATTCAAATATTATGATTAATTTTAAGTAAGCAGGCAATTTGATGTAATGGAGAAAGCACT
CACCTGAAACAGAGTTAACATGTTTTATTCCTTGGTACAGTCATGCTGGTTTTTAAGTGTTTAGCAATTCATTTTACCT
CTCCAGCTAAGGTAAAGGAATTCTTGTAGGAGTAATAGAAGCCCTGTGATTAGTATAAAACTTAGATTAAGATGCTTTG
TGCAGCAATTCCCATGGCATATTTCTTTTTGTCTTTTCTCTTTCTCTTTCTTTCCCTCCCTCCCTCCCTCCCTCCCTTC
CTCCTGCGCTGCCCTGCCCTTCTTTTCTTTTTCTTTCTTTCTTTCTTGACAAGGTCCTGCTTTGTGCCCCAGGCTGGAG
TACCTGGGCTCAAGCTATCCTCCCACCTCAGCCTCCCAGAAATCCTGGGATTGCAGACATGAGCCACCATGCCCAGGCC
CAAGTCATATTCTAAAACATGGCTTACTCTGATATTAACTGCCGTCTACAGGGGAATGGTCTAATTACTCTGCAAATGC
TCTCCACCTTCTAGAATAGTCACATTCCAATTAGTATATTTAAAGCTCTTAGAAGTCACGTAATAAAAAGAAATATTTT
CTTTAAGATTTTGAAGCCATATTTACAAATTATTTGACTCTCTAGTCTTTTTCTTGTTTTTATTATTCAACTGGACTCT
TAACATCTCAAAAACTAGTATTCAATGTAACAGTTTGGAAAATGTTCTTATACCTTTTCTACTTTTAATAGATAAAATT
GTTTTTAATTCATGCCAACAGAGATGAACCAACAATCTAAAAGAATGGACTCCTAATCAATTGTAGTGAATGGACCATA
TGTTCATATTATCTGTAATTAAATGGAGGAATTTAAAAGGAAAGGTGTGAGAATGGAAGAGAAGGCTGCCTCCCCACAT
CCTATCCAAGGCTCCTGTTTCTACCCGCACACCCTACCACAGAAATACCCAAGATTTATTTTCTAGAGAAATGTTCTCA
GAAAGGGTCAGGACTCTGAGAGAGAAGATGTAGCACCCTGCAGGGATGAGGTGTGGGGCTGAAACAAGGAATGAAGGGA
ATGTCTGTGGTGCAGATCTGGTTCCCTGAGATACTCCGAGATAGATAGAGATTGGGATGCAGGGTGTTTGTGGGGAAAT
GTTCTCAGTGTGAGCACCACAGGAAGAAGAGTAGGAACAGGGTTAAAGGCTCAATGGAGGCCTCTTCTGGTTCAGTTGG
GGTTTCTAAAACTTAGAGGAAGGGGTTAGGACTCTATACTATCTCCTTCCCGTTTATCAAATAGCCATTGTCTGCAGAC
TGCTCTGTATAAATGGGTATAATCTTGGGCAAGAGCAGTATACCCTCTACTGGAGAAACACATGCTGAGGGGATTCTGG
GCAGTGCATTTCAACATCCAGAAGAGTCAGCATCATGAATGCTGAAACCTTGCCTCCTACCCCACCCTCTACCTAAAAT
GAAAGTAATCAGATTAATGATAAATTACTTAAAAAAATAGATGCTGGAGTACAATAGAGTAATGGCTTCAATATTTTGA
AGGAATTTACATTTCAACATAGACTCCTTTAGCAAGTCAAACTATGAACTAGTGTAAAGACAGAATAAAGCCATCTTTA
GTGATGCAAGATCCAAAAAATGTAAAATATTAATACTATTCACTTCATTTGCCACTTGAGCTTCTATAAAATGTGACCC
ACAAAAAGCAGGAAGCTATCAAAAAGGAAATCATGAGATCCAATAATCAACACGGGAAATAACAGAAAGAATGCTTAGG
ATGTCAGATTTCTAGCGGGCCTAGAAAGCAACTAGCTGAGAAGTACAGATTGAAGCAAGAGTACAAGGTGTTGAGGAGG
AGGCTGAAAAGAGAAAATGAAATTGATAGATTATCCAATTTGCTAGAGCATCTGAGAGGGGTGGCAGATATGAGTACCA
TTTGGAAAAGAACCAAAGCAATTATTAACTACTAGCAAAACAGAAGTTGAGCCGTAAAGCAAATATGTATATATTACAT
ACATAGTAAATAAGATTTATATATAGTAAAAATATGTAAACAGTGATTGTTAATTTAACTAAAAATTGTGATGTAACTA
GGTGAAAAAAGGGAACTGGAGATCAGTATAAGATAATTAAATGTTTATTATGATAAGAAATGAATAGATAATGGCTAAA
AAAATGAAAATCAAGAAAAAAAAACCCAGTATAAGCATATTACTTAGAATTATAGAGTTAATTACCAGCAGAAACAAAA
TGACTTGAGAAAGAGCATTCACAATGAATATATATAGTATAGTTTTGCAGACTGTTTTTTGAATAAGGTTTTCAGTATA
ATTTTAAAATTATATGTGCATAATTTCTCTATTTATCCTGATGGGTGAGTTAAATTGCCCTGACAACCTCTAAATCTTG
TAACAACAAAGATGATAGTGATTGTTGTTTCCCATACTACATATCATCGACAGGGAGCTCTGCTGCACAGCCTCCTCAC
TCTGGTACAGAAACTGACAGAGTTACCATCATGGACTTTGTTGATCCTTCTGGCAGAAGGAGAAAGGGGAAGAGATGGA
GAGTCTCACACCAGCGAATCAACGCTTGGCTGCTGATTGGCCAGAATTAGTCACGTGGCTCCATTCAACTACAAGAGGG
TTATTAAGTGCATCTACATGTGTCCTGAGGGTGGAGAGCTACAAAGAGAGAGCCAGTATCGCTAATGGTTGCCTCAATT
TCTCTCATAATAATTGTTAAGTAAAAATAAAATAGGGCTTGGCGCAGTGGCTCACGCCTATAATCCTAGCACTTTGGGA
GGCCCAGGTGGGAGGATTGCTCGAGTCCAGGAGTTCATGACCAGCCTGGGTAACTTGGCAAGACACCGTCTCCTCAAAA
AATAAAAAAAACTAAAAAAATAAAAAAATAGCCAGGTGTGGTGGCATGGGCCTGTAGTCTCAGCTACTTGGAAAGCTGA
GGCAGGAGGATTGCTTGAGTCCAGGAAGTTGAGACTGCAGTGAGCCGTGTTTGCACCACTCGCTCTTCAGTTTGGGTGA

Fig. 6.263

CAGAGGGAGACCCTATCTCAAAACAAATACAAAAACAAAAACAAAAATGGTTTACTTCTAGCTAAAAATTTAATTAAAA
ATTAAAAATTCCTATGGATAATCAGCATGTAAATATTTGTGTGATAAATATGTAGGTATATA CAAAATATGTATATA
AACAAATATACATATGGATTATATATGTATAATTTATATTTTTATATTTGGTTTTTTCATATGTGTATTATTGAGTCCT
TAAACAAATGTTTTTTGAATAGCTTCTATTTACCAGGCATTGTTCCAGGTTCTGGGTATTCAATAGTGAACAAAACAGA
CACCCCTATTTCTGTGTAGCTTATATGGAGTGGTAGGGACAGAGAGACTCAGTAAGCATAGTAAATAAATACATTGTGT
AGCGTCTTAGAAGGCTCTCAGTGCTAGGGAACAAATAGTGCAATAGCAGGGGAGTTCAATACAGAGGCTGAGAATATGG
TTAGAATTTGCAATAGGGAAATCAGGTTAGAAAGGGCCCTTTGAGGCAAGGATTGAAGGGGAGTGGGGATAGATTCGTG
GGCAAATGGGCAGGGAATGCAAATATCCTGAGACTGGAGCAGGCTTGCGATTTTTCCAGGAATGGCTGGAAGGCTAGTG
AGGCTGCAGTGAGGGGACATAAGTGAGATCGTGAATGGGGACATAATAGGGGGCATCATGTGAATATATGGATGTAGA
GACCGTGCTAAAGACTGCCATACTCTCAGTTAATTGATTGAACTCTGAGTGAAACACTTGAATTTACACCGGGAAATAA
ATTGCCCAGCATCTAGAAGATGATTAATATTTCATGTAAACCAACTTGGTCACACTATGAAGATGGAAATGTAAAACTT
GTTACTTTTCTATCCATTATTAATTGCTTAAAGCTCTTCCATGCTTTAGATACCGCACTAAGCATTTATGTTTCAGCAA
AGTATTGGCATAAAATAAAGCTTACAGGATGGTGTGAAGGCAATATTTTTTGAGTGTCTACAGCATGCCACAAAATGAC
TTCAATGCTTAGAATAATTGAATTACATAAATATAATGTCCCCA TTATAGGCGAAAATACTGAGGCTCAACAGACAT
AAAATGGCTTGAGTTACCAGGCTACAGTAGAACTAGGATTTCAGTCCAGGTCAGTCTGACCCCAAAACCTTTTCTTTTT
TCATTGTTTGGATTTAGCACCCCCAAAAATGTCTTGTAATGCAGATTTCCTGGGTCCAGGGAATTGTTTAAGTTTTTGT
TCTAAAAACTTTCTTATGAAGCAGATTACATATGGAAAATGACCCTATGGACTATGAGAATTGGCCTTTAGAGAATGTC
ACTGCCAGCCCTGTTGGTATCTATAAGAACCAATAAGCATTATTTACAGAGAGTGATATACACAGTGATAATTAAGAAA
TAACTATATTTATGATGACAATTTTGCCAAATTTACTAGAAAAAAATAAAATATCCTCTGATTTGAGATTTATTGTTCT
TTTCTTTTGCAGGTAAGTTTGGAAATTTTTTTTGCTTGTGGAATAGAGGTATGGTATCACTTTTTTCTGAATTTTATTT
TAATTGCTTTTAACATTGAGCACCTTTCATAAGTAATATGTTTCACCACCCATTCGGTTGTTGTTGTTGTATATATTTG
GAAAGTAACATTGTGGGTTTGCGTTATTTGATTCAGAAATTTTACATATGTGATTCCATATGGTAAATCTATGCAGTGT
TTGTATTTGGGTTTGTGTTTAAATTATTTCTGTGTCAAGTATAAGGAAGAGGATTGTAGTGCGGGGTCTGTGTCAGGGA
AATGGGGGACTGTAAAGAACAGAGGAAAGAATATGCATGTAATGAGAGGTTGAAAGGCTGAGAAGGGCAGCTCCAGGCA
TGTAATCTACAATGGCCATGAATGCATGTCATGAGGAAAAGATGCCTTTTCAGGAACAAAATAATCAACTGAAAACTGT
TTTCATTCACTTTTCTAAGCCCCTAGTTTTTTGTTTTCTCCTATTATTGTGCAAAATTTCTGGCCAGACTATTGCTGAC
ATGTACCTTTGAATAAAAAAAATGGCTGTAACTATTCTGAAACATGTTAAGTTAGAAAGCAATAAAATAGATCCACTTC
CTGGAAAAAAGCTCTTATTAACTATATGTCAACTATTTCAGATAAGGAGTAGGAAGTTTCAGTAAAGCTTCTAGATACA
CAAAAGAGAGGATAAAATATTAGAGGGACTTAGAAAGACRTGATATTTGCACTGAGGAAAGAAGGTAGCCTGTAAGTTG
ACCACATAGGACCACGGCTTTATTATTGTGCACCGTGCTTTCATTAGTATATAAAAGAGGTGATTGTGTGAGATTTAAA
TCAAGCATGAACTTAAACTAAATTCCATATTAATTATAAACGGTATGTTTACTTTATTCAAAAAAAGATATATGTTTCT
CAAAATAATTGCAAATATTATTATTAATTATRTAAAAATAAAGAGGAATGAGGATACTAATCTACTCACCTAAGTTCTA
GCTAAGAGATGAGGTAGCAAAGGAGGAAGAAGTTCTTCAGTTCCTGGTCTTGATGGGTAAAGCGATTTGATCTCATTAT
ATTCTCTCCAATATAATCATATTAATATCGAAGTCATCAGAACGGAGTTGATATTATCAAGCTAAGTAAATATTAGAAA
AATAAAAATTAACAAATGGTTTCACTAAAACTGCAAAGTTTGTACCTGRACCACAAAGCTAATGGACTGGCCTACAATG
GTCTTTGTTTTAACTAGTATTCCGGGGGTTGATGGAAAGGGAGTGGAATTAAAGGGCATTGTAAAATGTCATGGCATCC
AATCTAATTATCAGAGCTCTAGCTCCAGGGTCAGCAAACTTTTTCTGTGACAAGCCAGATAGTAAATATTTTAGCCTTT
TGGGGCCACAAGAACTCTGTAGTAACTACTCAACTCTGCTGTTGCAGAGCAAATGCAGTTATCTGTAGACAATCTGTAA
TGAATGAGCATAATATGTTCCAATAAACTTTATTTACAAAATGAAAAAAAGTAGTGGGCAGGATTTGCTCTGTGGTAGT
TTTCCAACCCCTACCTAGCTCCCTTTGAAATAAAAAAAAAAAATTAAGTAAACTTTAGAGATTTTGGAACAAGATGTATG
TTGGCCCCCTTCAGATACAGATAAACACTTGGTCTAAGAATGAAATGTTGTTCAACTGGAGTTCAGAAACAAGATATGA
ACTTCTCAAAAGCTTTGATGAATTTAAACACTAGAGGGCACAAAAGGACATTTTTAAGTCAAGGACCTCTTGTAAACAG
AACACTACAATTATGAGAAACTGCCTGAAGTAGAGCGATGTGACCTCAATGTGCATAATTTGTTTGAAATGTCAGCCTG
TAGCTCTTGTGACCTCACTGACCACAAAAACTTGAAGTGGTTGACCACCTTCATGTTGCTGTAATAATAGCCACATGTC
TTTCTTCTTTTTTTCCTACTTCTTTCTCACTTCTTTCTCTCTCTYTTTTTTTTTTTTTTTTGATTGCTTTTGGCCCTTT
CATAAAATATGGCCAAAATTGAGGATTTATATGATGGGATTTTTTTCATTTCCTAATAGTTTTTTTAATTGCTTTAGA
TTCTAATTTTCATGTGGTGAGTCCTATTTGTACTAAATAAGTTATTTTGAATTATGTTGTGTCAATCTTTTATAAAATC
ATAATAAAATAATGCATGTTATTTATGCATATGATTTATGCATATAATAATGTATATTGACAGATGTCATCTGTTACAT
TGATTTATGAACTAATTTGAAAGTTTTATTTCAGAAAAATGCTTAAAAATCAGCAGAAGCTTGAAGCCTCAAAATTACT
CCTACCCTTTAACACATGGACACAAAGATGGTAACAGTAGACACTGAGGATTCCAAAAGCCAGGAGGGGAAAGGGGAAT
AAGGGAGGAAACTCTACCTACTGGGTACAATGCTCACTACCTGGGTGATGGGATCAGCACTGCCCCAAACCTCAGCATC
ACGCAATATACTCATGTAACAAACCTGTACATGTAGCCCCTAAATCTAAAATAAACATTGATATTTTTAAAATCCTACC
TCTTAATTTAGTAATTCTGCTTGTAGATATTTGGATTGTGGAAGTAATTTGGGATATTAAAATATTTATATTCAAAGAT
ATTCACCRTAAAAATACCTATAATATTGAGAACCTAGGTATATTSTATGTATTTCACATGAACTAATGTTTAAATAAAT
TTTCATATTAGACCCAGCCAATAGAATCTTGTCAACCATTAAATATATTTTCAAATGACATTAAGTGATAGAGAAAATG
GCTTATAGTAAACCATGAATGCAAAGCAGAATCCAAAAATTATGTACATCRAATCTCAATTGAATGTTAAAATTAGATG
CGTAAATATATGTATATACATATAAAAATAAAGAAAATGAGCCAGATTTACAAGTTGCCTCTCGGTATAGATGATTTTT
AAAAAAATTTAATTTTCTGAATTTTCCAAATTTCTATCATGAATATTCATCATTCATATGGTCATAAAAAATAAGTATT
ATTCAAACAGAAAACTATTTTTGCATTCTGACAGCACTTTTTTAGGTGTGATTCTTAGATCAGTGGTGCTAAAAGTCAG
AAGGTTATAAGGAAATTATTTATGTATCAGGCAATCAATTTAAATGAATTATTGATTGTTACGCAGACACATCATTAGA

Fig. 6.269

GTCACTTTTTTAGCCCTGGGATGGGATGATTTGTCTCAGGTTTGGGTGTTGTGGCTTAGTTGCCGTGCACTAGGCAGTG
AAGACCAGGAAGGAACAAGGGCCTGCTGGAGAGGCCTGCAGTGCTGATATTGAACATGGACTTCCCTGTAAGCTCCCTG
GACTGTGGTAAAGCAGGACACATCACACACACACACACACACACACAAACACACACACGTGGACACACACACTCATGCT
CCTCTATCCTTTTTCTCTTCTAAATCTGCTTTCTGCCCTTGCCTTTCCCTRTAAATGGATGTGTGTGGAGAGGAGCTGG
AGAGACAGCAGGGGTCTGAAGGATGCTAACTTGGACTTTTTCCTGAGCAAAGAATTCCTTAAGAATGACCTGGTATAAA
AATTTTGAAGAAATCTCATAAATAATATGGGCAAAAATGTGACAGCAATGTGGCACAATGCAAAAGCTTGTCACTAGTT
TCAGCCCAGCTTTTCCTCGTGATTGTTTTGAGTAGCATGAATTATCCTCTAAAATGTTGGTTTTTATTCCTTTTTCATT
TTGTACAAACATACCTAAAAGGGTGAACATAGTATAAGCAAAGACACAACGTTGGAACTATAAGGAATAATTTTTTCTT
AATTCACTATGTATTTTTCTAACACTTTTCTTGGAGCTTTTAATCCTTAGAACCTAGGAGATGGAGGACTATACACTCG
GGTTTACTTTTCTTTCATTTTCTTCTTCTGAATTCTTTTTTTTAACTTTTAAGTTCAGGGGTACATGTGCAGGTTTGTT
ATATAGGTAAACTTGGGTCACAGGGGCTTCTTGTACACATTATTTGTCACCCAAGTATTAAGCCTACTACCTATTAGT
TTTCCTGATCCTCTCCCTCCTCCCACCTTCTACCCTCTGGTAGGCCCTAGTGTGTGTTGTTCCCCTCTTTGTGTCCATG
TGTTCACATCAATTAGCTCCCACTAATAAGTGAGAACATATGGTATTTGGTTTTCTGTTCTTGCATTAGTTTGCTAAAG
ATAATGGCCTCCAGCTGTATCCATGTTCCTGCAAAGGACATGATCTCATTCTTTTTTATGGCTGCAGAGTATTCCATGG
TGTGTATGCACCACATTTTTTTTTATCCAGTCTATCATTGATGGGYGTTTAGGTTAATTCTATGTCTTTGCTATTGTGA
ATAGTGCTGCAATGATCATACACATGCCTGTGTCATTATAATAGAATAATTTCTATTCCTTTGGGTATACACCCAGTAA
TGGGATTGCTGGGTCAAATGGTATTTCTTTTTTAGGTCTTTGAGGAATTGCCACACTGTCTTCTACAATTGTTGAACTA
ATTTACACTCCCACCAACAGTGTATAAGTTGACTTTTTAATACTAGCCATTCTGACTGGTGTGAGATGGTATTTCATTG
TGGTTTTGATTTGCATTTCTCTAATGATGAGTGATGTTGAAGACTTTTTCATATGATTGTTGGCTGCATGTATGTCTTT
TGAAAAGTGCCTGTTCATGTCCTTTGCCCACTTTTTAATGGGGTTGTTTTTTCTTGTAAATTTGTTTAAGTTCCTTATA
GATGCTAGATATTAGACCTTTGTTGAATAGTTTGCAAAAATTTTCTCCCATTTTATAGGCTCACTCTGTTGACAGCTTC
CTTTCCTGTGCAAGAGCTCTTTAGTTTAATTAGATCTCATTTGTCAATTTTTGCCTTTGTTGCAATTGGTTTTGGTGTC
TTTGTCATGACATATTTTTTTTTTTTTTTTGAGATGGGTGTCTCACTCTGTCACCCAGGCTGGAGTGCAGTGGCATGAT
CTCAGCTCACTGCAACCTCCTCCTCCTGGGTTCACGCCGTTCTCCTACCTCAGTCTCCTGAGTAGCTGGGACTACAGGC
GCCCGCCACCACGCCCAGCTGATTTTTTGTATTTTTAGTAGAGACAGGGTTTCACTGTGTTAGCCATGATGGTCTCGAT
CTCCTGACCTCGTGATCTGCCTGCCTCAGCCTCCCAAAGTGCTGGGATTACAGGTGTGAGCCACCACACCTGGCCTGTC
AGGACATCTTCACCTGTTCCTGTGTCCAAGATGGTATTGCCTAGGTTGTCTTCTGGGRTTTTTATAGCTTTGGGTTTTA
CATTTAACTATTTAATACATCTTGAGTTAAGTTTTGTATATGGTATAAAGAAGGGGTCCAATCTTCTGCATATAGTTAG
CCAGCTATCTCAGCATCATTTATTGAATAGGGAATCTTTTCTCCAATGCTTGTTTTTGTTAGGTTTGTCACAGATCAGA
TAGTTGTAGGTATATGGTCTTATTCCTAGGTTCTCTATCCTGTTCCATTTGTCTATGTGTCTGTTTTTGTACCAGTACC
ATGCCGTTTTGGTTACTGTGGCCCTGTAGTATAGTTTGAAGTTGGGTGGCATGATGCCTCTAGCTTTGTTCTTTTTGCT
GAGGATTGCCTTAGCTATTCGGGCTCTTTTTTGGTTCCATATGAATTTTAAAATAGTTTTTTCTAGTTCTGTGAAGAAT
CTCARTGGTAATTTATTAAAAATAGCACTGAATCTATAAATTGCTTCAGGCAGTATGGCCATTTTAACAATATGGATTC
TTTCTGTCCATGATCATGGAATGTTTTTCTATTTTTTTGTGTCGTCTCTCATTTGTTTGAGCAGTGTTATGTAGTTCTC
CTTGTAGAGATTTTTCACCTCCCTGGTTATCTGTATTCCTAGGTATTTTATTCTTTTTGTGGTGATTGTGAATGGGATT
GCATTCCTGATTTGGCTCTCAGCTTGACTATTGTTGGTGTGTAGGAATGCTAGTTATTTTTGCACATTAATTTCATATC
CTGAAACTTTGCTGAAGTTGTTTATCAGTTTAAGAAGCTTTTGGGCTGAGATTATGTGGTTTTCTAGATATAGGATCGT
GTAATCTGCAAACTGGGATAGTTTGACTTCCTCTCTTCCTGTTTGAATGTGCTTTATTTCTTTCTCTTATCTAACTGCC
CTAGCCAGGACTTCCAAAATGTTGAATAGGAAAGGCGAGAGAGGGCATCCTTGTCTTGTGCCCATTTTCAATGGTAATA
CTTCCAGCTTCTGCCCATTCAGTATGATGTTGACTGTGGGTATATCATTGATGGCTCTTATTTTTTGAGGGCTGTTCCT
TCAATACCTAGTTTATTGAGAGTTTTTAACATGAAGCGATCTTGAATTTTATCAAAGGCATTTTCCACATCTTTTGAGA
TAATCATGTGTTTTTTGTCTTTAGTTCTGTTTATGTGATGAATCACATTTATTGATTTGCATATGTTGAACCAACCTTG
CATCTCAAGGATGAAGCCTACTTGATTGTGGTGGATAAGCTTTTTGATGTGATACTGGATTTGGTTTGCCAGTATTTTA
TGGAGGATTCTTGCATCAATGTTCATCAAGAATATTGGTCTGAGTTTTAAATTTTTGTYATATTTCTACCAGGTATTTG
TCTCAGGAAGATGCTGGCCTTGTAGAATGAGTTAGGGAGGAGTCCATCCTTCTCAGTTTTGGGGAATAGTTTCAGCAGG
AATGGTACCATCYCTTCTTTGTACATCTGGTAGAATTCAGCTGTGAATCAGTCTGGTCCTGGGGTTTTTTTGGTTGGTA
GGCTATTTATTACTGACTCAATTTCAGTGCTTTTTATTAGTCCATTCAGGGATTCAGCTTCTTCCTGATTCAGTCTTGG
GAGAGTATGTATGTCCAGGAATTTATCCATTTCTTCTAGTTTTTCTAGTTTATGTGCATAAAGGTGTTCATAATACTCT
CTGATGGTTGTTTGTATTTCTGTGGGGTCAGTGGTAATATCCCCCTTATCATTTCTGATTGTGTTTATTTGAATCTTCT
CTCTTTTCTTCTTTATTAATCTAGCTGGTGGTCTATGTAGTTTATTAATTTTTTCAAAAAAAGAACAACTCCTGGATTC
ACTGATCTTTTGAATGGTTTTCTGTGTCTCAATATTCTTCAGTTCAGCTCTGATTTTGGTTATTTCTTGTCATCTGCTG
GCTTTGGAATTTATTTGCTCTTGGTTCTCTAGTTCTTTTAGTTGTGATGTTAGGCTGTTGACTTGAGATCTTTCTAACT
TTTTGATTTGGGCATTTCATGCTATAAATGTCTGTCCTAACACTGCCTTAGCTATTTTCCAGAGGTTCTGGTATGTTGT
ATCTTTGTTCTCATTTGTTTCAAAAACCTTATTGATTTCTGCTTTTATTTCATTATTTACCCAAAAGGCATTCAGGATT
TCAGGAGAAAAGGCATTCAATTTCCATGTAATTGCATGGTTTTGAGTGAATTTCTTAGCCTTAGCTTCTAATTTGATTG
CACTCTGGTCTGAGAGATTGTTCATTATTATTTCAGTTCTTTTGCATTTGCTGAGTAGTGTTTTACTTCTGATTATGTG
ATCAATTTTAGAGTATGTGGCATGTGGCAATGAGAAGAATGTATATTCTGTTGTTTTKGGGTGGAGACTTCTGTAGATA
TCTATCAGATCCATTTGTTCCAGTGCTAAGTTCAAGTCCTGAATATCTTAATTTCCTGTCTTGATGATATATCTAATAT
TTTCAGTGATATGTTAAAGTCTCCTGCTATTATTGTGTGGGAGTCTAGGTCTCTTTGGAGGTCTCTAAGAACTTGCTTT
ATGAATCTGAGTGTTTCTCTCTGTTGGGTGTGTATATATTTAGGATAATTAGATCTTCTTGTTGAATTGAACCCTTTAC

Fig. 6.265

CATGATGTAATGCCCTTCTTTGTCTTTTTTATCTTTGTTGGTTTAAAGTCTTTTTTGTCAGAAACTAGGATTGCAACCC
CTGCTTTTTTCTGTTTTTCATTTGCTTGGTAGATTTTCCTCCATCCCTTTATTTGAGCCTATGTGTATCATTGCATGT
GAGATGGGTCTCTTGAAGACAGCATACCAGTGAGTCTCGATTCTTTATCCAGCTTGCCACTCTGTGTCTTTTAATTGAG
GCATTTAGTCCATTTACATTTAAGGTTAATATTGTTATGTGTGAATTTGATTCTGTCATCATGATGTTAGCTGGTTATT
TTGCAGACTTGTTTATATGGTTGTTTTATAGAGTCATTGGTCTGTACACTTCAGTGTGTTTTTGTAGTGTCTGGTAATG
GTCTTTCCTTTCTATATTTAGTGTTTCTTTCAGGAGTTCTTGTAAGGCATGTCTGGTGGTAACAAATTCCCTCAGTATT
TGCTTGTCTGAACAGGATATTATTTCCCCTTCACTTATGATGCTTAGTTTGGCCAGATATGAAATTGTTGGTTGGAATT
TCTTTTTAAGAATTGTGAATATTGGCCCTCAATCTTTTCTGGCTTGTAGAGTTTCTGCTGAGAGGTCCACAGTTAGTCT
GATGGGCTTCCTTTTGTAGGTGACCTTACCTTTCTAGCTGCCTTTAACATGTTTTCTTTGATTTCAACCTTGGAGAATC
TAATGATTGTGTGTCTTGGGGATGACCTTCTTGTGAAGTACCTTACCAGGAGTTTCTGCATTTCCTGAATTTAAATGTT
GGCCTCTCTAACTAGGTTAGGGAAGTTCTCATGGATAACACTCTGAAATATGTTTTCCAAGTTGGCTTCATTCTCCTCA
TGTATTTCAGGGACACCAATGAGTCGTAGATTCAGTCTCTTTACATAATCTCATATTTCTCGGTTTTGTTCATTCCTTT
TCATTCTGTTTTCTCTATTCTTGTCTGACTGTCTTATTTTAGAAAGCCAGTTTTCAAGCTCTGAGATTTCTGAGATTTT
TTCCTCCACTTAGGCTGTTCTGTTATTAGTACTTGTAATTACATTATGAAATTCTAATAATGTTTTCAGTTCTATCAGG
TTGGTGACATTCTTGTCTATACTGGCTGTTTGTCTGTCAGTTCCTGCATTGTTTTATCATGATTTTTAGCTTCCTTCCR
TTGGGTTTCAACATACTCCTGTACTTCAATGATCTTCATTCCAATCCATATTTTGAATTCTATTTCTGTCATTTCAGCC
ATCTCAGCCTGGTTTAGAAGCTTGCTTTAGAAGGGACRCGGTTGTTTGGAGGAAAAAAGGCACTCTGGCCTTTTGAGTT
TTCAGGGTTCTTGTGCTGATTCTTTCTCATCTTTGTGGACTTTTCTACCTTTAATGTTTGAGGTTGCTGACATTTGAAT
GTTTTTTTTTTCCTTTTATCCTATTTGATGACCTTGAGGGTTTGATTGTGGTATTAGGTGGATTCAGCTGATTGGCTTC
ATTTCTGGAAGATTTTAGGGGTCCAACACTCAGCTCCCAACTTCTGGACTGTGTGCACTAACTCTGGGGGACTTGTATG
AGGCCCAAACTTTGTCTTCTCAYTCTTCAAGTTTTGGAATCCACTCAGCTAGGGGTGCTGAGATGGGACAGCTGCAGTG
AAGTGCTAGTGGGTGTGGGGGTGCCTGCCTCCTTGCAGATGTTCACCAGAGTGGCAGAGGCAATGCAGCTTACAGAGGT
GGGCAGGAGGCCCTTGCTGGAGCCTGTGTGCACAGTCACACTGGAGGTGGTGTTGGCTGGGGGTAGGGTGGTGGCAGGC
ACAGGTCTGAATGCCTTCTCTGTGCCCCACAAGCAGGAGTGATAGCTCAGGGTAGGGGAGGATTCACTGTTCTCTGTAC
AGCCCACGTGTTTACTTTTCAAATAATTTGATGAACTGAGTGAAAATATTGAATTTAGACTAGCTGATTTCATTAAACT
ATGCTTAAAACTTCAATTTATACAATTTTTTTCTTCATTTTAAAACTTTGAACCAAATTGGCTTGTAACATAAACTAAT
AGATTCAATTAGTTATTTGGAATTATTTTCAAAGATGTGTCCAACATTCTAGAGTTTAAAGTTTATATCCTCAAATTAC
AATTGCYTGTAAAGTTTACTGGTTTATTTCCTCAAATGATCATTGCTGGTTTATGTATATGAAATATTCTCAAACATAT
CAAGGTACAGATAAAGCTATGAGACACGTAAGCTTCTTCTGTTGTCCATTGGGTAGGTAGAGAAATGGATGACTTGGCT
TATTTAAGCTAATTACTAAAGGAAATAGAGAAGCCTTGAGTCCTTTCTGGAACAAAACAGAATTAAATATTCATTACAT
GAGGGAAAGCATAATTTAGAACAAAATAATGAAATTTCCCTGGAGTCTGTCTTCTAAGAGGTTTGATGGATTCATTTAA
CATACATTTATTTCACTCCTACTGTGCTGGGCAGTCCCAGGGTTATACAGCCCCAGGAGGTTCAGAGTCCAGTAGAACA
TGAGCATATACCACTCTTTTTCTTTACAATACTCCTTTAGAGAAAAGAAGACTGCAGTTTGCATTTTGCCCTGGGTAAG
AAACAAATTAGAGATGTAAAGAAACTTTGCTAAGCACTACAGATGCCTTTGACGTGTTTATTCCCGTTGACTCATAACT
GTGTCTCACCAGATAACCTATAGTATATTCATACCSAAACTTATCTTTTTCTAATACTTTAGTTATTAGTTTTTAGGTA
ACCTGAAGAAGAATGAATATGAGCTTTTCATATCTATAGTAGGTTCACTTCCAATCCAGAGAAACCATGGACAGACCTT
TTTTTCAGCTAAACAAAGTGTGGTAGTTTAACATCGCAGTAAGATCAAAAACCACCTTAACTGAGTATGAAAAAATATTT
GATGATACAGTAGTCTTCAAACTAAGTTTAAAAGATGCAAATAGTACATATATGCCAGTACATATGCCAGTGTCTTGAA
TACTGGGAAAAAGGAGGATTCGAGTGGGGGAAAGTTCACGACATTGTCTCTCTGCCTCTAATCTTTCCTGCTCAAGTCC
TTGCAAGTAGAATCAAAATATCAATTGTTCTGAAATTAATTCTGCTTTTATTATTTCACTCCCTTGTTCAGARAAACTT
GGTAAGTTTTCACTTCTAAATGGAACAAAGGTCCCACTCCTAACGTATCATTCAAGTTCCTTCACAGTCCAGTCTCAAC
CTTTCTTTCCTTTCTTTTCCTAACTATCATTGTTCATAATACAGTAATATACCCTCCCAGGAGTATTCAATCTTTTGGC
TTCCCTGGGCCACATTGGAAGAATTGTCTTGGGCCCCATATAAAATACACCAATATGATAGCTGATGAGCAAAAACAAA
ACAAAAAGTCTCATGATGTTTTAAGATAGTTTATGAATTTGTGTTGGGCCACATTCAAAGCCATCCTGGGCCATGTAGC
CCACAAGCCACGGGTTGGACAAGCTTACAGGTCTAAACTCTGATAATTTCACTACACCTTGGATATTCATACTTCTGGT
GAGCMGAGGCTGCTTACACTTTTTATAGGCCAATATCAATCATAACGTTTAAGTGTTTAATAAGTATCAATATTTATCT
CATATGGCTCTCAGAACAGTGAATTAATTCACTTAGCAAATATATATTGAACCATTACCACTATCTGGCCCTATTCTAG
TTGTTGGCCAAACAGCAGTGAATCAACATGTCTCTCCTCTGAAAGAATTTAATTTTTTGTGGGGAGGATAGTACAAAAT
ATATGAAATACATAAACACATTCAAAATGTGTGTCGTGATGGTTAGTTCTATGAAAAAAATTAGTGCAGAGTAAAGAAA
TAGTAATACGAGTGTGATTTTAGATTAAAAAGTCAGAATAGGTATCCCTGTCTGTTAAACTGACATTTAAATCTTAACA
AAATGAGTGAATTATGCATTTTTCCAAAGGAAGAGTGTTTCAAGAAAAAGAAATAGCAAGTGCAAAGCTCCTTAGGAGG
AGGCACATTGTGTTTAAGGAACAGGAAGAAGTTGAGTATTGTGGGAACTGAGTAAGCAAGAAAGAGAATAGAAAAGGAG
GCCATAAAGAGAGGAGAGGGCTTTTGAAAACCATGGAAAAGAGTTTGGATTTTATCCCAAATGGAGAGGGAAACTAGTA
AAGGGTTTTGAGCAGAGAAATGGCATACATTTTCAAAGGATCACTCTGGGTGCTCTGTGAAGAATAGAGTAGGAGCAAG
AGTAGAAGCAGGGAAAATGGTTATGACGCCACTGCAATAGCCTTGGAAGGAGACAGTAGTGACTTGGACCYGGGTGATG
GCAGTGGAGATGGCGAGAAGTGATCAGATTCTGGCAATGTTTTGAAACCAGAGCTAATTGTGTTTGATGACGGATTTTT
ACATAGAGTGAGAGAAAAAGAGATGAGTCAAAGATAATTCAAGGGTTTTTGGCCTGAACAAATTGGAAATGTGTGTTTT
TATTTATTGAGCTTGAGGAGTTCAAGGGAGGAGTAGGTTTAGTGGTGGGGTGGTTCTGTTTGAGCATTTTGAGTTTGAT
AGTCCTGTTTGTGGAAAATGCTTGGAGTGCTGCCCCATTTCCCTCCACCCACTATAGAGTTCACCTGAGGCTATGGCAG
ACTCAGTCAGTTTCCCATCTCAGGCACCTGGGGGCTTTCTGCAGTACAAAGGAGCCTGCTGAGACCGTTTACAGAATTT

Fig. 6.26C

TTTAACATTCCCAGTGGCAACACTCCAACATTGAGGGTCCAGAGTTGGTGCTCATATACCCCAGGTTCCACATTCTCCA
GTGGGACAGTCCTGAGGCATGTGTATATATGGTCCCACAAAAGGTCCCTGGGGAGATTGGGCCC[illegible]TCTGCCCCTGCTT
ATTAATACACACTGTATTAACTTTTCTTCCTTTGCTATCCCACTTCTCCATCACCTAACTTTGATTTCCTAGAATCGCC
TTCCTGCCTCTTCTCCAAATAAACTACGCACTCCAATATTTTGCAGTCTCCCTGGAAGGAATTAAACCTAAGACTATTA
AATACCCATATGTCAATCTCCAAGAAGGAGATTGATATACTATTCTGAAAACCAGGCAAAATGTCAGGGATGGAGATAC
AGTTGGGAGGCGTTAGTCTTTTTCACAAGCCTATTCAAAAGCCCATTGCACAAGCACTAGATATGTGTAGATTCCTACA
CAGACTTGTTACCGTCCTTGTCTGCCTCATGTCATCTCTTCCACATGAATACAATGATACTCATCAATGAATGCTCTGA
ACTTTCAGCAAAGGCCACAGTAGAATTTCTAGATAGTAGTAGATTGAGAAGTGATGACAATTTGATTGGAAGCTAAGGG
ATCTTGGGGACTTGTCTTGAATTTGCATTTACATAGAAAGCACATCGTTTTTATGTTTGAYACATATTTATTTGTGGTG
GGTTTGGAAAACCTTGTAGCGGTTATGGAGGGGCACCCCAACCCATCCTTTGGTGTTGCCATTGCTTTTTAATTATGAT
TTGTGCTAAGCCACACATTCTCATTTTACCTAGCTCAGGGTTCTAAGCATGTTTTTCATGATGGTTTGGTTAGGAAAGT
GAGTAGCAATGAATGAGCTCCTCAATAAATACATAGCACAGACACTGACAGGCAAAGTGAAGTTTGTAATCACTTCCCA
ATCAATTGTTCAACTGAATGTGAGAAGAAATCATTTTCTCTCCTGTTTTGAGTCAGAATATCACATAAAGCACAACTCT
TCCTGCATACATTGTATCATATTCCACAGTAATTTACTTTTTTGCA[illegible]GAAGTATCCAAAATTTGGTTTTTCCTGCTGAG
CAGTTATCCAGATAATTGCAAATCAGTGGAATCATTTACATGAATAAAGATTTTTATTCTAATTAACGTGCTAAATCAA
GCACACCAAATGTCTCTAATTCTTATATTACTCAAATGGCAATATTTTTGTCAGTGACTATCATATGAAATTTCAGGTG
CCTAATGCATTTTCAAATGGCACTCATAAGCATACTAACGTTTTATAAATAAATGTCTCCATATTTTTAAGATGAATGG
ACAATTTTTGATTTTTAATRTAGTCCCCAATTTTCAATTTTTCAATTTTCATTTACCGAATGGAGAAACAGCATTCATC
AGAGCAAAAGAGCAAGTTTCACAAGTCATGGGAACAAACATAGATGCTAATTTCCTATTTTAGGAAGTTCTTTTTAAAG
TATTATCATTAAGAAGCACAACTCTGTGGAATATTTATGTGCACATTTAATAATAGAGAATTCGGATGTCAAGTCTGTG
TGTTACTCATACCCATACATGCATCCTCAAAAAGCCTTGGAAGTTAATCCTCAGCTGATGAAAGCTAAGCAATTGCTCT
GGAAGGATACTTGAAGTTTTTGGCTCTTGGGGTGAAGGTACAGTCACGAAAACCTCTCTTCACAAGAGGGCGCTGTGCA
AACAGCTAGCTCCTCGTGAAGGAAAATTGCCTTGCAGACTGGCACGAAGTGGATTTCTTTACATCTATTAAGTGCTCTG
CTCTTCATAAAGGAAAATTTCCTTGCAAACTGGCACGAAGTGGATTTCTTTACATCTACTAAGAGCTCTGCTTCTTTCT
CTCTCTCTTGCTTTTTCCTTGCCATGCCTCTTCTTAGGCTCTGTAAGGCAGACTTCTTGTCTTCTCTAGTTATGCTTCT
GCAAACTGCATCATGCTGATTCTATTAATGATTTGATTTTAAATAATACCATCATAGGTGTTAAATGATGTGTATGCCT
ATCTGGCTTCTCAGGACTTCTCTCTCACTACTTTACATCTCACCAATGTGTAAAATATCTATGAGACATCTTTAATTTA
ATATGATTCAAAAGTCTTTACTCTTGACCTTTGTTTGAAGTCTAATCAACTAAAAACCTAAAATTCCTGGTGGGAAAAA
AAGAAACTTGACTACTCTAGTTTTTTAATAACATGTATTTCATTTATTCTGATTATAAAAGTCATCTTTATTTATTGTA
GAAAATATAAACATTATGGAAAATAAAATTTAAAAACATCTATCATTCTATTACCCAGAAATAACTTGATCAACATTTT
GGTGCATATTTTAATGAATAGATTTTTAAATGAGAAATGCTTTTCAGGAGTAATTAGATTCTACTTAGTATTGACAATT
TTATAATATGCTTTTAAACAAAGTATTAACATTAACTTTTTTGGAAAATGCCACTTTCTGCTACTTATAGCTGTATTGG
CTATTTTCTCAGAACTTCTGCTGTAATGAGTTTATACTAGAGTTGCAAATACACGTTCTTTGAATGTACTTGAGGAGTC
GATAGTCTGAATCTGAGATTTTCCACAGCTCTTGGAGCACCTGAGAACACACTAGCTTCTTCCACGATTCTGCAGTACT
TGCTCCTTCCTGATAGGATGCCTTTGTAAGCGTACAACTCCAAACATGGGCTGAGTGTTCAGTAATCATTTGTGTTGAG
TTCTTCAGTTTCATGGAGACTAAAATTAGGTTTTCTCTGTCACTCTTGTAATGTCATCTGACCTTGACCTGCATTTCAA
ATTGCTGAGAAGTTAGCAAGCTGACTTTTACACTAGGCACATCAGAAATAATTGATTAAAAATAGAGTTATTGAAGTTG
AATTTTTTTCATTTATAGAAAAGTACAATGTCTTGTTCATGACAAACAAGGCCTAACATTTATATAATGTTCATTTAAA
ATATATCAAAAGAAAACAAAATAATAAAACCCACAGAAAACCCAAAAACAACTCACCTATTAAAACATCTCTTGATTTA
TAAATATTATAGTTTAGTTTGTACAATATCAGTAACTGTGGAAAGCTCCCAATTATCTCATTCCCAAGTGCTTGACTGA
CTCATAACTTACCAACAATTTTCTTATTTCAGAGAATCCCAAAAACATATTACCTAGGACTAACCTGGAATAAAACTTC
ATGGTTGATAGCTTTTATCAATTAAATGGGTATTGATTTKGATAACTCATAATCTTGAGCATATCTTTAGATTTACTTT
TTATCCTGAATTTATTTTTGTTAGTAAGATTTAGAAATTCAGATTTATTTTGTGCTTTATATGACATAGAAAAAAACAA
ATTGTCTTTCCTGTACAAAGTCCACCCTTCAAAATAGACTCCAGAAGAAAACATAGAGACTTATAACTTAGGTTAAACA
TAGGCACAATCCTAAATAGTATTCAGATGAGTCTTACCTGAATAATTGCTCACCTAATATGATAATCACCTGTTAAGAA
GCAGTTTCTTAAATGTCACTGTTGGAATCTAAACAGTAGATACACAGGTGTTCACTGTAAACTTGTTTCAATTTTTCTG
TATTTTTGAAAATGTTCATAATACCATCTTGGGGGGAAAAAGCCTCTTTTTGACATGGCAAGAACCATATTCTACTGAA
ACAGATCTTATATGCTCTATCAAGTTTATATTTTAGACATCCCTAATTCAGCTCATTCTGGACTATTCCAGGACTGATT
GCCCTACTAAGGCATGCTTATTTTTTTCTTTATGTGTATAAGAAGGATTCAAAGGGACCGTTTGTCAGTTTTAATGTGT
GAGCACTACTGATATGTTTTATTGAGAAAAAGCTTACTGCCACAGATCACAGAGATATTTTTCCGAGGTAAGATTCTTG
CTGGTTTGCAAGTTTTGTAAGGAGGCACCAGGACCCATCTCTGTACCCCCAGCCACGGAGCCCTTATTTAGACCCACAC
TGGGCTGAAATAGAAACTTCTGTACAAATGTATCTCTCCTGTGCTCTTTCCACTTTAACAGAATAGAAAGAATTGACTG
GTTGAGCCCAAATATTTCCCCCAGGCCAGWGTTACAAACTGGCGTTTCACCAAAAATAACTCATTTGATATGTTTTTAA
TGTTGATGATCTGAAAAATCATCTTCTTGTTTTTGTTTGTTTGTTTGTTTTTAGAGATAGGGTCTTACTCTGTCAGCCA
GGCTGGAGTGCTGGAGTTCAGTGGCACACTCACAACTCACTGCAGCCTCGATTCCCAGGTTCAGGTGATTCTCCCACCT
CGGCCTCCCAAGTAGCTAGGACCCCAGGCATGCACCACCATGCCTGGCTAACTTTTCTCTTTTTTGTAGAGATGGGATC
TAGCCATGTTTCCCAGGCTGGTCTCCAACTCCTGGGCTCAAGAGATCTGTCCGCCTTGGCCTCCCAAAGTGCTGGGATT
ACAGGCATGAGCTTCATACCTGGCTACCTTCTTCTTAATTATATACATTTTTTCTTAAATAAGAGCTCATGTTATTTTT
TATTTCTATAAATATTTTATATTCCTTCTCTTCTTATTGCCCTGATACTTTAAATAAACCTAAGCCCAGTCAAATTTTG
TATTACCCTTGAGTTTCAGTTTTTGGTTCATTCAGCCCTAAGTTCTCTTTGGGCATGAATTGTTTTCACCATTGACTAC

Fig. 6.267

TAGCAGGCAGCTGGCATAGCCTGGGACATGTGAGGTGATGCTAAACATGCATTTGTGAGTAGAAGGAAGGAAGAAAGGA
GGGAAGGAAGGAAGGAAGGTAGGTAGGAAGGAAGGAAGGAAGGTAGGTGGGTGGGCAAGAGAGAGGGAGGAAGAAAAAA
AGGAAGGGAGGCTGGTTGGTTTGATTAGCTGTTGAACAAAATTCCATATAGAAAGTAGCTTACTAGTCTATATCTTTTA
GCTCTGTTTATTTCAAAGCTTTGTGTGTTTTTGTTAGGGTCACTTATAGAATATTTAGAAAAATACTTGCTGCCTCATG
CATTTCACCATCCAGTGCCTGGTGAGACCTAAAAGCCCATAGTTATAATTTTGTTTCTTTGACCAAAGTTTGTTTTATT
TTCAAATATAAATTCAATCCCTTAAGACTCACCTATAGCATATATATCAAACAAAAACACGTCAAATTTAACTCAGAAT
TTTGCTGGATAAATGATTTTACTGGATATCATCTGACCAATGAAATAACAATTGTGTGTTCTCAAATTTACTTCTACAT
TTTTAAGGTAGTAAGTTTAATTAAAAATCTCTAATATAAAAATGGCTTATTCTCTAAAATTTAGAGGTAAGCTAAAGTT
TTCATCAAGGCCCCATTATTTAGCACTTTCCAAACTTGGGAAGGTCACTTAACTCCACTGAACCAGTAGAAATAAAATT
AGTGGTAACACTGAAAGCAAAAACCAGAACCAGTCCAATTGTCTTATTAATAATAGCCTAATTGTGTAAATGTCTGTTA
TAAATTTCTTAGCTGGTTCTGAGAGATAGCTAGTAAATGGCACCCTAAGTTTTATATATTCTGTTACAAAACAAAAACA
AATAACAACAATAAGCTGTTTTCTTTTGCTGTTACTCAAACATCTGGATTTCTATTGTAGCCCCTAGCACATTGTTACC
TTTGGTTGGATGGACTGAAAAGTGTTGTGATTTTTCTCCTATGTAGAATATTCAGAGGGAAAGTGCAGGGCAGTGCACA
ATGCATACAAACATTGACAGGATCACTTTTCCTCAAGCTGAACTATACTCTAGGCCTCCTCTCTCTCTAGTTACCACAG
TTGAACCCACTCAGCCCCTACTTGCAGCCTCAGTCCCACCCCAGGCTCACAGGCCAATTTTGTCCTGGAATTAGGAATT
GAAAGATCTCAGGTAAGCCAGCCACAATGGAGACAAGATTTAGAGATAAGCAAAACTGACTTGGACTCACATGTCTGTC
ATATATTACCTCTGTGGTGTTAGCCAAGTTCCTTAACCTCTATGAGTCTCAGATTTCTCATCTATAAAGTGGTGATAAT
AATGTCTGCTCGTGAGTTGGAAGATTAAGTAACATGTAGATCTTATACCTGACACCAATTGTTTTTCCTGTGAAAGTTC
AAAACTTCTCTTATGATTTAATTCTTCAAGGAAGGTGACCTGACCTTTTTCATTCCTGTATTTACTTATATTCCAGGCA
TGTATTGGTTAAGATATACATTTTGCAATTAAGAGGGACCTCAATTTTAACCTCAGATCTGCTACTCATTGGCTGTATG
ATCATAGGGGCAAGTTACTTCAACTTCGTAAGTCTTCGTTTCCTCAGTGGTGATACAGAATAAAAATAACACAAAGCAC
ACAGATAAATTATTATGAGGATAATATATAGTATACCCTAAAATTCTGTGCAGAGTCTTCAGAACACTTTCATGTTAGT
TACCCTATTCAGTCCTCTCAAAAGCTCTTTGCAATGGCTCTCTCTCAAATGAGAACCAAATGGATAAGACATTATAACT
CAGCAAGGTCAATAAACACCACAGAATAAACACCAAATAAGTGGTTGATATCATCATAGTAAAATGAGGAATTAGAAAA
GTTAACCCGACATTATGGTGATGTTTGGTTCACAAACTCATTCAGTGCACAGGAAGTGTCCAAGTAAGGAAGGGGTCTG
AGGATGACAGGTACTCAGGAATGGGAAAGTTTATGACTGTTGGCTCCAACAAATGGATAACCAGATTTAGCAAGATATT
GAACAGTCACGGAAAAAAATCCACAGCACCAAAATTTAGCACATGAGATTTTTATTTAGGGATTCTTGGTATTGGGGGTC
TTTTTCTTTCTCCCAAGGGAGTGATTTTGTTTCTCAGCCTAGCAATTTCATCACTGCTTTTGCTTATTTGTAAGCATA
ATTCTAAAAAGTTGTAAGAAGCCATTTCTGTCCTTATTTGGTACGTGGCCAACAATAAGGGTAGCATGAGTTGGAGTCA
GTGTTGCAACTGGTTTCCCAATTAAACAACCTGTCTCTAGGATCCCATAAGTTTTCAAAAAAATAAGTAGAAACATTTCT
ATATTTAGGAGAAGCTTAGGGTTTTGAGCAATCGAGAAATTCTATCACCTAATTTTTGTAAAATTTCTTGCCACCTAAT
TTTTTTTAGATCTTGTAAACAAAGTTCTTAGAGGGTTTTAATGCTGCAAATAAAACATTAACATTTCTTCATATGATTA
ACCTTCAAGATATAACAGCTAATATTTTATTCTTACACACATGGGATATAAAGATTTCAAATAGAGAAAAGTGTTATCT
ATCAAAACTGAGGACTGATATTCTTTTTGAAACTGATAAARTGGTATGCCTATTTACCATGCTCATGAAGTAACCAATT
GGCAATTTTTAGAACTTAAAGATGTTTCTAACAGTATAAAAATAGTTTTCCTACCTCTCCCAAAAGCTTACAAACATCA
GTAGTGTGTGCCTAAAATTTTGTCCAGTTTTCAGAATGTTTTTATATAAATTGCCTTATTCAGCCCTCTCCAAAACTCT
TTGCAATGGCTCTCAAATGAGAACCAAATGGGTAAGACACTGAAACTCAGCAAGGTCAGGCAACAATCTTCAAGGTCAC
ATGGCAAGTTCATGGCATAACTGTGACTCTAATCTCTAATCCCCTATACAGTGCTGCCCTGAAAACTTGCCCAATGGTA
TTTGATTAAAAAAATTAATTAATCAATCAAATAGGAAAAAGAAACTAAATAAGCCCTACCTAAATTACCTGTTCTGAA
ATTTCTGCCCCTATTTAGGCACATATAAGAATATAATGTAAATGCTCCATCTTATTTTTAAGATGCCCTGAAAATATTG
GTTTGTCCATTTATTAAACAAACATAATTGTGGTTTTTATGTCTCTAGACTGTTTGCTAAGCACTGAGTACCCAGAGGG
AAAGCAGATGTTATCCATGTTCTCATAGTGTTTAGGTCTATCAGGGGAGCCAGATACCAAATAAGTCATTACTAATGTG
ATGACATTGACAAAGAGGAAGTACAAAGTGCAGTGGAGACCTCACCTGGTATGGGGAGGCAGGGAAGACTTCCGGAGGA
AGTGAATTTCAAGATGTAATCCTATATCCACCACTCCTTCACTCACCAGTCAATAGCTAAGTAGGATTTTTATTTAAGA
CTGTATTCATGAGTAGAATATTAAATAGAAAGAATTTTTATGACTTTTAAAATCTTCATATACAGAGAATTGAACAAGA
CAATCAGTGACACCAGAAGACTTTTACACACTTGTTAGAAAATTGTGTCAAATTATTTATTTCAAATGATTAGTCTACA
TTGATTTCAAGATTTTTAAAGAATTTGAGTCTAGAAATATTTTTTGAATAGTTAGAAAAATCTCTTAGGAACTTGTCAG
TCATTTAGTAGATATTCAATAAACATAAAATTTATTTTCTTTTCCTTCCATTTCTTCCTCCATGATTTCTTTCCTTCAA
TCCCATTTATCCAAGTAGGCTTTATCCAACAAAGCTTTAGAAGGAGCTTTGTTAGTTTAGTGAATAGAAAAGCTTGACT
TAGTTGTTTTCCAAATTGCTAAAAAAAAATCCTAAAATTAATGTAGATGGAAACCTTAAGTGTCTAGTAAAACATTTTGA
TTCACAATCATAGTCATATTGATTTTTTATCATTATATTTAAGCATGCCTCTTATTGATTGTTTTAGTCTATATCCTGA
TTTTAGCTCTTTAATTACAGTTTGTGTCTGTTTGTGTCCTGGGTCATATATGAGTAATGGATGCAATTGTAGAAGCTTA
AAACACAGAGCATGCTTTCCCAGTGTTCTTAAGACCATGGGGTACCTTCAATTCTGTTAATGTTTTACTGTTGCCAAGT
CTTAAAATAATTGTCTCCCATTTCAGAACATGGAATAATTGACCTTTCRATCAAGTAGACTCATATAAGGTTTAGAATG
AATATTTGAAAGCAATTCAAAGAAAAATTTTGGTATTATTTTGCAACACTTCCATTTTGAGAAATAACTTATAGTTGATT
TTGATAAGTAATGTAATAAAAAATCATTTTTTACATTTACTTGTACTGAATGGATATTAGTTTTAAGGAGTACACAAGCC
CCGTTATCAAACTGCCTTTTGTCACACTCTTTTGCAATGYATCATTCTGAAGATAGAATTACAACGACACCCTCATCAG
AAGTAGATGGTAAATAACAGTCTGTTATTTGCTTCCRCATTAACTTCTGCTGGCTTTGAGTCTGTAACCAGAGACTATT
TCAAAATACAGCACTATCCTGAAACCCACTATCTGCCTGCTCTGGTTTCCTGAAGCAATGTCTTTCAACCTAACGCAAC
CCCACTGATGTAACTGCTTATTTCTCTGAAGTTCAGCTCAACCCTCGTCTCTTCCGTATGCCTGTTAACTAGAGACTTG

Fig. 6.268

ATGCGCAAGTAATTGAATGCCTATGTGGATTACGTTTAACTTATCCCACTCTCAAATTTGGGAGTTTCATTTTTATTCA
TAGTAGCTATCTCCTATAAAGGAAATTCTGAGTTTCTGTGTCAGACACCGAAACCCAAATTTGCCATTTGTAACATCTG
GAATCTTGGAACCAAAATCCCAGAAATATTCAAGAGGCAAAAMGATGCCTTATTTAGAGCTCTGCAGAACATAAGAGC
TAAGTTATTGGCAGGAGACGGGCACTTTGCTGATACTTTAGTGGGGTTAGGACTTACATGGATAACAATTGGATTGGAG
CAATGTTTAGATTTCCGAATCTGGTTTTCCCTAGGACATATAAAATTAGTGTGCACAACTTGTAAACATAATAATTTGT
CTCAGGGATGGAACATCTCTCCTTGCTATTGAATCATGCTTTTACTAAAATTCATCTGGAAAAATAAACGCTTAATAAA
TGACAGTAATTAGAATGTTCAAAAGATGTCTTCTTTGTTCTTTTATACTCTTTGATACCCATGAAGTAAAAATTATAAA
CAGCTTGTTGTATTATAAATGCTAGTAAAGATTCATCCTAGAAAATCATTTTATTTAATTTCTTATTTTTTCCAAATGT
CTAAATTCTCATGTCTGTGAAATATTAGCCAGTTCTTCAAAAACAATATTGATATTTCTATTTGAAATCAAGGCTTAAT
TTTGCTCATGATTAATCTCAGAAATAAGTAGCTTATTTCTATGACCTTACTGAGACCTGGTAACCTAAGAAGGATTATG
TGTAACTGTGTGGAAGAAATGAAAAGGAGGCGGTAAGTAATTATTTAAGAAAAAAATAATATTAATATTGACAGACACTT
CTTGTGTCTGTAACTGATTTCACACTAGGAAAATGAAGCAGAGTTTCAATTTTCTTGTTCATAATTTCACATTTACAGT
TCCATTGTTTTATCTTGCTTAACTGTTCTAGATGACTGCCTTTACAAAGCAGGGGGAAAAGAAGGAAGAAATGTTTTTG
ACAGTAATGAAAAAGACAAGATTAGTTCTCCTTCCTTGCACATTTTTAGAAAAAGTTGGACATTCCCTAGCAGATTCAT
TCTAGATTATTCGTATGTCCTTGTAGCTTATCAATTAGATATCCATTAAATTTGAATATCCCTTTAAAAAGGTAAATTT
GTAAGCAAAGGCAGTTAATTATTTGTGAAAATGTATACTGCTGGCTTTAGCCTGAATACAAAGATAGGGTTTATCTTGC
TATCAGTAAAATTGGGATAACAATGAAAATATTTTTCTGCTTCCAAAGTCGTATACATAAACTGTAGCTTTTATTAGAA
ATCAGTGATGCTGTTTCACCTACAAAAATTTAAACACCACTGGACAAAATGAGAGCTTTGTGTTGCCTGGAGGGTGAAA
AAAGTCCATCTTTGCCAGCAACATCCCTTCTACTCTTCTGCTTGTCTTTGTGGCCTCCCTCCCCCTCCCTTTCACACCA
AGCCACCTCACCCCACCAGCTGTTAGGGACTCCTCCCCTCTTTACGCAGATCACCAGTTATCTTACACTGTCTGGCTTT
AGTCTCAGATGAAGACATTCTAATAAGCACCAAGTTGTTCAGCTCAGTGCTAACTCTGCCAGGAATGTGTGCATTTCCT
AAGAGCTGCCGAAAATGGAAATTAAATAGTTTGAAAGAATTAAATGATAATGGTGGCATTTCATACACCAGAAGGGCAG
ATTGGCATCAGTGTAAGCACCTTTTCAGTCCTTCTTTGAGAACACCAGGAAAGTGGCTACCTGTTTTGCTCATGCGAAA
TTTGGATCTCTATACAAAAGCAAAAAGACAGTTTGTGAAGCGTTACAATATTGCAAGTTGATTCAGRGAGAATGTGTTG
TGTTTATTTTTGAACTCTCTGCTCCTCCAAGGTTGCTGCTGTTCAGGGCAGTTCTCACTCACCCACTTTCTTTGAGCTC
ATGTCTGATAAGAAAGAGGTGAAACTGTAAAAACCTTTTCTATTACTCGTCTCCAAAGCTGATATGAAACCTGTAGCAT
TCTTAAGAACCCCTGGTGTCCTGGATGCTGTTGTGAAAACAAGCATAATGTTTAATGTCTTGAGCTTTTATTGAAATTA
TATGAATATTCAAGACTCCCTTGGTGTACAAGAGACAGATTGAGCTTTAGAGGTCTCAAAATTTGCAGATATGGTGATG
TTCACTGAGCTCAACTCTTGGTCAATTTTGTCCAGTTCAGAGAGGGTTAAATTCACTCTTGGGCACTTGAAGCCTCTCT
AATCTTATCCTGAAGAAGTGGCGCTCTCCCTTGGTTTACAGTTGAGGTCACCCGCGGGGCAGTGTTTGGATACAGACTG
ATGAAATTATGCTGCATTGTTAACATTGAATACCACTCAGTGGTGAGGACCGATGACGGCACTAGGGTCCTTTGACTCC
TTGGGTACAATTTCTTGAAATAGATGCTTTCCCAAAATGTCCTGGACTCATAAAATATATGAAGGATTCTATTTGGCTT
TCATCATTTATTTAATTTGAAAGAAAGTTGTTTTAACAGATTTATCAGAGTTAAGAAATGTTTCTAGGGAATAGAAAAT
GGACAAGATAATTGATCTTTGTTGTCAGAGTCATGCATTGTAATTCACTCTCTAAGGTGACGCAGCATCTCCTTGAGGG
CAAAGCTGCCAAAAGTTCTGAAAGTGATCTGCCTGTTTTTTTTTCTCACACTGACTTTTAGAGAGGCGCTGGTATTTTC
AAGACGAGTAAATCCTGTTTACATCCTGTGGAAGGTTGGCTAAGAATTATATCCATCTCTTTTTAAGAGAAGTTGAAAT
AAGGAAAAATTATAGTTGGCAGTTAGCTGTGTGAAATTTAGTAATCTTTGTCAGATGASCCAGTCATAGGCATGTATTTT
TTAAAATTTTTAACGAAGCCCTGTGGGTTTACATTTTTAAAGTTCACACTGATATAAAGGTTTACCCACTTCAATCA
CACCTTTTGTTGTGTGTGCATGCGTGTGTGTGTGTTGTGCTTTTCAGGAGTGGCATGTGACTATGCTGTTTAATCAGGG
CTATATTTAAAAACAAATTTTCGAGGGAGTGTTTCTCACGTTAATTATGAGATAAGGCCTGAGTGAAGCAAACTCTGTC
GCAAAGGCCAAGTGTCATGCAGCAGGAAGTCCTGGCCATCCCTTCCAGCCCTGCCTCAGCCAGCCTGCCATCTCTCTGT
CAGCGCATACCACTGCACAAAGGAAATGCCCTCACTCAGCTACAAGTGCCTCCTGCTCCGTGCGGGGCCTCAGGGCCCC
AGAGCCCCGCACCAGCTCTGACTTCTCGTGGTTCCTGGGGATCTTGGCATCGTCCTTAAAAATGGCTTTTGTTTGGGAT
CCTCTGGGAGCCACGGTGCCAGGACCATCTACAAGAGCCAAATCAAGATTGCGTTTCTCAAAGTCCTACAGGTATTACT
CTTTTCCTTTTGTAGCTAGGAAGAATTGTTTAACTGCCTTAGGCCCCTTGCAAATAAGCCTTTGCCCTATGTTGACCTT
CTAACTCCTAATGCTTGTTAAATTGACAATATATTAAATAAGAGCCAAGAAGATGATGTAAACCTTGAAATAGGGGTAT
GTAGGTACGTGCAGAAGTTGAAGGAAGTTGACTAACTTTAAAAGCTAATTCTGAGAGTTAAATGGCAAACTTAACAAAG
CATTCATATTACTGCCACCTGAAAAACAGTGTATTAACTTGTCTAATGGCTTAATACAGTCAACTCTAAATGTTAGGGA
AGGGTTCTTGTTTGACCAACAAAAAAAACACTACATTATTCTTCATAAGTGTTTCAGGGCACATGCACATGAAAAAATG
GAAACTAATGCTGTTTCAGGTAGTAATTCAGTGTTCATCTTGCCCAGCMGAATTACATGTCATGAATTCAAACTAAATA
TTTTAATAATCTTTTGTTTCTGGAAGTCATATTAAAAATCTTGACCTCATGACTTCACTAAACTGTCAATGACTGTTTT
ACAACAAAATCAGCTTATTTTAACCAAATAACTGGAAAGAAAGAAAACACTTAAAAAAATATTGGATTTCCTTCTTCATT
TGAGTATTCTAGGTGTTAATAAAGAGAAGATTGATTATTCTTTATTATTGTTTAGAAAGAAAACCTTTTCTGTTTTTGA
TTGATTACAATCTATAGCACTGAAAGGTATCTATTTAATCAATAGTAAATAGAAGTGACATTGTTTGCAAAATTTTGGA
TATAAGGTCTTTCTTATTTAGACCAAATGCAGCACATCTGGAAGCTGCCAAGCCTATGTAGAAATATATATTAACACTG
AATTAAAATGTGTTCTGATTTGCCTGCATATAAAACATTCAAAGTTTGAATTAAAATAATTTATAAGGATTAATTATTT
GCTTTAGACACTAAAGAAGATAATGTCCTTGGAATTTTTAGGGAACTATAAAATCAGAGAAATCAAATTTAAAAATTTT
GTATAACAATGCATAAGCAAACTTTGGCAAGAGGTAAATATAATTTGCCAGCTAAAGGTATAGGTATTAACTCCATTTA
TTTTTATTTCAAAATAAAATAATGATTTATTTGTTATGTTTGTTACAGCTATAAAATTTAGTTGAAAATTTTAAATTAT
ATGCTTCCTATGTGCTTTGCATTTTGTTAAATGTGATTCTCATGCTTATTGTATGCTAAATTGTACATTTAGAACTTAA

Fig. 6.269

CATCAATGATTTGCTAACATTACTGTGCATATTTCCAACATATGGTGGCTTCTAGGCTCTCTTCATCACTAGATCTGAT
AACAAGCTCCTTAATATCATAAATCTCCAGCTGCTGAATAAAGTAAAAGCAATAGCTTGATTGACTAATGAATTTGAGA
AATCTCACGAAATGCAGAGTTTAAGCTCTTCTGTGTAGTTTGCAAATATATTATAAACCTTGCCTTCTCAATTTGGCAA
AGATATTTTTATTTTGAGGTGTTATGGTATTGTAACAATTTAAAGCTATATGATAAATATATTTTTTCAAGGTTCCTTT
GGTCAAGTTCTGACCCTTTCCAAAATATAAGCATTAGCAGCTAAGAATGACTTTTTCATGTAYTTGAATACCTCACATC
TGTAATTTTAACAAGTTTCATTTGTAACAAGTTTAAGAGGTGAGAATGACATCTCAAATATCCATCATGAGTCAGTTTC
CTTCGGAAGCTTGAGAGGCTCAGTCCTTCCTTTACTTCCTCTTAATTTGAATATACARTTTCCCACAGAATAATTAATT
TTTTTATATGTGCTGCTTTCACTGTTTGGAGGTTCTAGTTTATCTTTCCAGTTGCACTGCAAACTCTTTGAGGTTAGAA
GTTTCCTTACATACAGCAAAAATGCCAGTAATGCCTATTTGATAAAGTATTCTGTTACCCTTTCTTATTTGGCATCACC
CGATAATGTTTTATTGGCATAGCCAACTTGATATGATCATATCTATCATAAGTTGAATTGAGTGGAAGGGTTAGGGAGG
TAGGAAGGCAGTTGGCCACTGGCTCTTGCATTTCTGCAGGTCCCTCATGTATCCAAAGGAGATTACGCATTCAGCCACG
ACAATGTACTGACAATAATGAAAAAAGGTACATATCATATAACTTAAAATTTTTATCATACCATAATACCTCAAATGCA
CCATGAGTCACTCTATATATATACAGACACATATACACACCACACACAGGCACATGCACGCACAGTTAAATGCTATAAT
TATCTTCTGAAGAGCATAGTTTTATTGCATAGCATTCTTGGAATTAAAGGTGTTAAACTATTTGATGTAAACATGTAAA
ATATCTCATAATGTCACAGCCTTGTTTTTGCATTTCTTATTTTTTAAAAAATATACAAAATCCTTACGCGGTGAAAGTA
ACTTAAGCTTATCTTGACCTTTAAGAGGCTTTGGATCTGATTCCATTATTGAAGCAACTGAAAGAACTGGACATTGGAC
AACATTTCTTCATTGAATTTCTCCCTTATAATTTTTTTATGAGCAATATTTTTTATCTTGTAAAATCTTCAAATGTGC
CTATTGTAGTGTCATTTTTCTTTGGCTATTGAATGGATAATAATGCATGCTACTGGGGGTACACTTAGCTTTAACTGGA
ATATTTTTCCTTGGCATGGCTTTTGCTGCCTGGTAATATTCAGGCTAAAGGAAAGCCAGGTGTACAAGATATGAAATTC
AATTAGTGTCTGATTTGTTAAAGTAATAGCAAATCATATACATTTAATGAGTGTTGACTCTTGAGAAATACAATCTGAA
ACAGTTTTACAATGCTCAAAATAGATGTGAAAGTTTTTCAGCTGTGACAATTTTTTATCTTATGTGGGTAAAATACATT
TTTATAAGAAAAGATTAATATATAGCTTATTAAGTTTGATTGAGGCAGAAAGAAGGATTGAAAGAGAAAAGAAGAGGGA
GAGGGAAGGAAAGGCAGGGGAGAGGAGGGGAGCAGGGCCGTGGAAGGAGGAGTGAGGAAGAGAAAAAGAGAGAAAGCAG
AGGGTTACATAATAAGGAAGGTACTTTTTCTCTGTGAGCCCAGAAGAGATTGCCAACCATGTTTCAGTAATGGGATCA
GTGTTAGCATTAGGGCACCACTTACAAAGATGAGTACTAATTTTGAGGGCAAGGTGCTGATTTATCTGCCTAGGTTCTG
GCACACATGTTTAAAGATTCACCTAATTACTTTAGAGCAACGCCCCTCCCAAGTATTATAGAGAAGAAAGAGGAGAATG
ATGTGCTCAAGAAAACAATGTGGAGAAGTTTATATTGGTTGTTTAAACATAGTACCTAAAAAAAAAAAAATGGGGAAAA
ACGATCTGGGAAGTAAAGAAAGAATCAAGGAGCAAAGATTTAGCAAGCCTGTGGACCCTGACAACTCCAATAAGAGAAC
ACTAGGGAATTTTGTGATTTAAAATATATTATTGCTTAAAACTACAGTAGTGTTCAAGGAAACTTTAAATAGAAAATTA
CTCTTCTTGAGATGATTCTGTCTTCCAAAGAGAACAAATCACAAGGATGTTAAAAGGAACATTTTATGTGACAAGTTTG
GGGTAGGTACTATGTAAATAGAAGAGAAAGTCACTCAAGGTACATTTGAATGTAGGGCAGAGATTATTCCATAGCATTC
CACAGGCCAGAAACAGAAAGTGTCTTCTAGTTTTCTTGCCCTTTATAGTAATAGGGGTCATGGGATAGAAATTCTCAGA
AAATCTCCAAATCTCATTTTTGCCAATTGTTTCAACATCTTTTCCTTCCCAGCATTTTAGCAGAGCTGCCAAACAGGTG
ATTAATTAAATACATATGTGCATGCTTGTACCTCGTGTAGAAGGTCTAATGAGTAAATTTATTTGATATGACATAGACT
GAACAGTAGAAGGAAGGATTAATGACAGTCAGATCAACAAACAAAAGTACAAATGGTATCTGGGCTATGAAAAGATAAA
GCAATATTTGCCCAAACAAGAAGATCTAGATATCCCTAAATTACCTCCTATATTATTAGGAAGTAAAGACCAAATCTAC
AACTTTGATCTGGAAATTGTATAGTAGCTGATATGAACAGGGATCATAGGAGAGTGTGGTCTCATAGCTACTCTTTGCT
ACTACCAAAACCTGAGTGGTAGCACATCAGTGATTGCCCAACCAAACTGCACAATTCCCATTAGAAAAAGCTGTCTCAA
ACCCACATCTTAGAAAGGAAGTGAATGCCACCAGTGAATCAATACACTGGGATGTAACTTTCTGCATACCCCAAGAATA
CCTCCTGTTGCATAGCACTTTTTAGTTTTCAAAGCTTTTCAGATGTAACAGATGTGACAGCTGTTGTTTTTAGTGTGCC
ACAGCTCATCTCACTTAATTCTTTAGGGTAAGTGAAAAAGATGAGTGTAATTAGTATCAAATAAGAGAAGAAGAATTGA
AGGTTCAGGGACTAGAGACCACACATATATGTGGTTAGAAAGTCCAAAGTAAGAACAGTAGAGCTAGTTTGTATTGGAC
ACTTACTATGCACCAGGAACCATTCCCAATCCCATACATGCATTAGCTCATGCATGTCATCCTCCAAAACAGCCTCGGG
AGGTGGATCTAGCATTACCTTTATCTTACAAATGAGGAAACCAGGCAGAGCAAGTTTAAGAAACCTGCACAGGTGTGAA
TTCTGGAAGTCTGTGTTAGAACCAGGACTCCTGGTCCCTCTCCCACCTCCAGCTTCCTCACCAGATCCTATTATCAGCA
CACAAGGAAAAAAATTCCATAATGAGAGGTATTGTTCTAACAGATGTACTATCTTCCTCTACTTAACTCTGAATTTTTC
TCTGAAGACAGAACACCACGTAATTTGTTATAGAATAGGGCTTAGTAATCAGTTAAAATATAAACTTGTTAAATAATAT
CTAAACTGTCCTCTAACCTAATTGATGTTGGTTTAAAGAAATGCTAAGCAAAAGCATCAAAATAGAGGTATTTTTATAT
TAAAAAGAAGAAAAAGGAAAATGAATCCGTTATTTTATATTGTCTGCTTCTGCCCCCTCCTGGCTTTTGCTTCATGGGC
TTCCATCTGGCTCATTTCATCTGGCCAAAAACATTGGTCATGTGGTTGTATTTTACTGCCAAATATTACTCCTTGGCCA
GCTGTTCAGAGGAGCCAGAAGATTCTCTGAGCTMGAGAGGTCAACTCCATCCTGTGTCATGTCTATTTATTCTACTGGC
ATAGTCTTGACTATTAAACTAGGTTTCTTAATGATATTTCAAATTGTGAGTAATGTTGGCTAAATTGACAAAAAGAAAT
TATAGACAACATTTATATCTAAGAATAACAATACTACTAACAACCATTGCACATTGTAGGAAGAGGTAGCATGGTATAG
GAGGAGAACTTTGGCTCTAGAGCCAAACAGACCCAGCTTCAGTGCCAACTCTGCTGCTTTCTTGATTGGGCAGGTTTCC
TAACCTCTCTGAGCCATTTCCATGTACATAAATAGAAAATTAAAATATCTACTTCATAAGGTCGTTGTGCAGATTAGAT
GAAAGCATGTACGTGAATGCAGGACTACCTGCCAACTCTTTCATAGCATTTTCCAAGTCTTCACTAACATTTCACAAAT
TTTGTGAAGCTTCTTTTGTGAAATACATTTTCAGATAAACTATCATCATTGGTACCACTCTTGGTCACAGAATAGTACA
ATAGAGCTGGCTTATAAATGGTTACCTTATAAGCAACTTGCACATACAACCCAGGCTCACCTTGGAAATGTAGTGTGCA
GGAATGATTGACAGCTGGCTAGCTCTACAGCCACACTGCTGCTGAGGTTCACATTTTCACATTATCACTTATAGCTATG
AGACTTTGGGCAAGTTACTTCATGTGCCTCAGTTTCCTCATTTGTAAAATGGAGTATTATGAGGATTAAGTGTGTTAGC

Fig. 6.271

CATGTAAAGTGCCTGGCACATAGACAACACTAAAATAAATGTCAGCTATTATTAATAATAGAATGTAAGCTCCACATGG
CAGCAATTTTTGTCCTTTTTTCCACCTTTGTATGGCCAGTGCCTGGAAGAGTGTGTGGTACATATTAGGTGCTTGGCGT
TTGTGTATTGAATGAATGAACCTATTAGCAAATGTGTTCCGATTCATGGCAAGTGTGAGGATACTCTGCTTCCTTTTGC
CACATTCATGGGAAGAGGGGGTTAGAGCTGAAGGAACCTGATGGTTCATTTGTTCAAACTCATTTGTCTTACATTGAAG
AGCTTGAAGACCTTGAAAGGCCCCAGGGTCATGCAACTTGATAGCGGCCTGGTCAGAGCTAGAACCCTGGCTCTGTGTG
CTTCTGTGAAAATCTTTGTTCCAATGTCCCACCCCTCACTTCAATACATATGCCATCTAATTCARTGCTTTCAGTAAGG
CAGCAAAATGAATGAATGATTCAGAGCACACTTCTTGCAGACAGGAGAGTGTATAAGAGCCATAATTGGGCAATGACCA
TGGAAGGACAGGTTTCTGAATAAGAGAAAGACTTATCCAAGTAAAATTATGTTCAGACATTTTACTTACAAGTCTAAAA
ATCACTTGCTACAACAGCTACAATAGGGTTTTTGTAAGGAAGTACCACTTTGTAAACAACATTTTTGTAGAATGCATTA
TATGCATTTTTTTCAAAATTGAAGGAAAGCCCCATCTCAAACATTCAAAAGAATCYGCTCAATTATCAATGTAGACTAG
AAACAGAGATAGAGAGGGGAGATACAGTTTGAGTGTTTTCTGTATTATCATGACAGCACATGGAACAACCACAGGCAGA
AAGATTACAAACTCTGCAATAAATATAAAGGTATTGGTTTTATAAGGTGGCCTGCAGGCTACGGACCAGCACAGAGCTC
TGGCAAATGTGGAATGCCAGGAGATGTACAAAAAAATCAAGGTGACAAAAGAAGAAAAGACACTCCAAACTGCCAAGGG
TTTATAATCATGCTGTGGATATTTCTGATCATCAGTGTGTTAATGGTTTTCACTATAGTTAAAACTATACCATTTTTGA
ATGGGTAATAGGTATGAATATTTATGCTTAATTAGTAGTTTATAAAATTTATACTATTTATTTTCATAATGTTGATTTT
ATGATTTTCAACGAGTGCCATTTGTCCTTAAGTCATGAAGTGGATGAGCCCCCATCAAGTGATTTTAAGAGACAGTACC
TTGACTGAGCAGCTGGATCAAAGCCTGTCTGATCTGGGCAGAGCAAATAAGGAATACTTCTTACAAAAGAGGAAGCATT
CAATTCTATACACTTTACCTTGGTACTCCTTGTTCTGGAGGCCTCAGCTTCTATCATGTTCTTTGCCACAGTCATATAC
CCACCTTCTACCTTGGCTCTCCCTCCTCCTAACTTCCATTATTTTTTCTACTTTCAAACTATAATTGACAAGCCTTTTT
AATTTCAACAAGGGTCTGAAGAGAGGTGTCTGATTTTCCGTAAGGCTGGGTTATATAAGCACACAGAGTTGAATCAGAG
CAAAGGAAAAATCCATTGGCAAAGGAAGAATACTATATGCTACTTTAAAACTTGTCTGAATGTATTATTTTATTTACTT
ATTTTAGAGGCAGGTCTCACTCTGTCATCTAGGCTGGAGTACAGTGGCATGATCATCACTCATTGCAGCCTCAAACTCC
TAGGCTCAAGGGATCCTCCAGCCACAGCCTCCTGGGTAGCTAGGACTACAGGTGCACCCTACCATTCCTGGCTTAAAAA
ATATATATTTTAGAGTCTGTTTTGCCCGGGTTTGTCTCAAATACTTGGCCTCAAGTTATCCTCCCACCTCAGCCTCCTA
AAGTGCTGGGATTACAGGCATGAGCCATGGCACATGGCTCAAATTATATAATTCATTAGCTGGTAATAGTGTAAATTTG
GAAGAGAAAAACTAAAATGATAAAGAGGAAAGATGGATTGTGAATAGAGTAAATATATATTACTGTAATTATGTTAAGC
CAATCAAATGCAAAGGACAGTTCAAAGGGGACAAGTATGTAAGCCACATTCCAAAAAAAAAAAAAAAAGCTTTGAAGTGA
AGCTTTAAAAAGATAAGCTTTGTGTTGAGCTAAAGAAATAAACTCTATAAAAACAAAACCCTAAAATTGTTATGACAAT
GAATTAAACATTCAAAAATGAACAGAACAGAATGTAAAAGATTATTCCTTCAGGTGGTAAATGTTCACAACCAGCTCTC
TATGGGGGAGGGGAAGGGCACTATTTGTAGTATTTGCTGATTTCTGTGCCAAAAAATTCTCTCACCTGCCCATTTCAAA
CAGCAGAGGTCACTAAATGTGGAGTTGGCAAGAGATACATAGACATAGTACTCTATACAGTGTTTCTATCATATAGATA
CAGTAGATATAAGTTGCCCCAAAAACATAATAATACAAAATGTAGCCAAATCATTCAGAAGTTATGAGTTTTGAATACT
TATTTCCATTGTTTTTAATATAATTTGTTTAATTATAGTTAAAAATTTTTATGTAATTTAATTTTTAATAACTGTTGGG
TATTAACAACTGACTTATAAATACTCCTAAAAATGTAACAGAATGTAGTGAGGGACAAAATGGATGCGGTCTCTGCTTT
CATCAAGTTTACATTCTGGTAGAGAAAGACAGAAAATAAACAAGTTAACAATAAATAAAATAAATAGAGACTGAGATGA
GAGGTTCTGCTTGGGGAAGCCAGGGAAACCTTTACAAAGAAATTGATAATTTATTTGCATATAAGTTCAAGCATATCCA
TTCCATACATCTGTGAGTACATTTGTAGTTCTAGGCCTGAAACTCAGAACTGCACAAGGTCAATGGAACCATATAAATA
TTGACCTCATTACTGACTTGTTTTCAGTCTCCAGTCTCTTGAGTGAATTTACCTTTGCTTCTTTGTTATTATAAAAATA
CAGTGAGGGAAAGTAAAACAAGGAGGAAGATGAAAAGAAGATGTAGGGGGAAGAGGAGCAGTTTACAATATACTTTCTA
TTACATTGTTTCACACTATCTCAAAACTTTTTATACGTAGAAAATACTAAAGCAAAGAAAAATGGAAGTTAAAAATCGG
TAGCAGTAGTAATAGTCCTATAGTAGGAACCTTGTTTTGTTTGAAATATGTGTCTGTGTCTGCCTACAAAACATAAACA
CCTTAAGCTAAGAATAACTGTGAGATTAATTTTTTATTTTCAAAGAAATAATACAAATTTTAAATCTTGCATTAAAAGG
AAAGCTAGCTGGACGAAACTTTTCTGACACACAGATTTTGAGAATAGCACCCATAAATATGCTTCCAATGCTTGTCACT
TGATCCCTTTTTGGCAATTAACTTGCCTTTAATTGATTTGTGGATTACCCACTGGAAGTTGCTATGGATAAAGGAATGT
AATGGCAGAGTTTGTTTATATAGGGTAACAAAATAGACTGGCTGGGAGGAGGGATTTAACTGCAAAATATCCTTGATTT
TCAGGAATTTTTCTTTTCACATAATGGCAGTGTTTAGATAAAGAATGGAAAGTTAATGAATCAGATTTGTGTTCCCATC
CAAAGGGAAGATTTATGTCCTGTTTAAGAATCACATTAATTTGATGACGTTAGTACATTCTCTAGTGAAAGAGTGGCCA
CTTTAGTGGAGGAAAAAAACAAGCAACAAAACTCCTTCTGCCATCTTCAGGTTGTACCTGACGAAAAGCTTTTATTTGT
GGGTTCTATGAAGTATCACTGCCCTGATCTCAGATGAACTAAAAGATGAAAACATTTCATCGCTCAAATAATTGTTTAT
CTCACATCTTACTGGTTCTAGAAAAGGACTATATATTTTCCCTCCTAACTTTCCTCAGTTTCTTGGTATAAAGTTCAAA
ATGCTTTGAGTAGAGTTGTTCAGGAGGTCCTCAGTGGCACTGCCACTCACTGGTTGGGACGTTTTTGTTCTCTGTCCTC
CTGTGTGGAAGATGACAAGGACGGCTTTGTGCAACTTCTGTTGTATGCGCTGCTTTTCAACCCCTTGGATGAGATACTC
ATACAAGGAACGTCAGGTTTTTTTCCTAAAGCAAATCCGTGTAAACTGAGACAACATAAACCTTAGGGAGATCTGACAC
ACCAAAATGCCAAGAAAGGGAAAGAAGAAATTATTATCGGTGGGGGAAACAAATTATCCTGTATTTTGGAGTGAATTTA
AAAGGCTTATTGTTTGTTTTAGCACTACATGACTTAAAAAAAAAAGTCTCGCAGTCTTGCCTTCCTCATGTTGGTTAAA
ATGGAAAGGATTCTCTTTCTTTGCTATTTATAGATAACCCTTAGCACTCTGCAAGGATCTATTTGGTATAAAATGATGG
GTGTGAATGTGCCAGTAAGAGAGAAAAAAATGCTTAGCCATATTTACTCATATAACCAACATCTAGGTCAAAATCAAAA
TATTACCAGCTCCCAAGGGGACCCCTTTATTCTTCTTTCCAGTCACTATGCACCCGAAGATAACCACTAACTGACTTCC
AATAGCATAGATTTGACTACTTTTGAATTTTATATGAATGAAATTATACAATATAAACTCTTATTTTATTTCAGTCAAT
ATTGTGTTTATGGGATTCATTCATAGTGTTTTGTGCATTCTTTATTCTCATTTGTTAGTATTGCACCAAATGAATATG

Fig. 6.27I

CTACAATTTACTTATTCTAGTGTTGATGGATAGTTAAGTATTCCAGTTTTAGGCCATTATGAATTAGAGCCATTATGAA
CATTATTGGATATATCACTTAGTAAACAAATGTACATGTAGTGTTGCAGTGTTTTGTGCATACACGTAGGTTGGGTATA
TCCCAAGAGGTAGGATTTCTGGGTCATAGGTTATGCCTTTGTCTTTAGATATTGCCAAATGTGTTTCTATACTGGTTGC
CACATTTATGTCGCCCCCAAAGTGATGTTTCAGTTCTCTGCATTCTTACCAAAGTATAGGTCATCCATTTTCAGTGATG
GCATCTTAAAAAATGTTTGCCTGTAATAACAATGTCATCATGCCTTTTATTTATGCAGTTGAGTCTTTTAATCTTTAGG
ACCTGTTTTTCCAGGAATAGTGTGGGTAACAGTGAGCCATTCACACTCTGTCTGTTTCTCCTCATGATGAATACTATGT
AACTGTGAATTAAGTGACTAAAATAAGAAACGATCTGATATGCAGAAATAGAGTTTTCCCTGTTTGATCCATATGCAGC
TTAAATATGTGATGTTATTCTACATTTTATCCAGATTCATTTTTCAAACCAATAGTAATCATTGTTAGCAAAAACCAAT
AAATAATCTTTTATTCTGTTTTAAAATTTCCATGTCGTACTTTGAGTTCTTGCTATATATCCCGTGCTCACTTTAAATC
AGGTTTTCCTTCCCGTACATTATTTCTTGGAAAATATGTTTTGGACTTTTCCTAAACCACCTTAACCTGTTGAAAAACA
CTAGTAAATGCATAGGCAGTGTAAGTCACGCTAAAATAAATGTGTATTGCTTTTTCAAGATTTTGTTTACCCATGCATT
TAAAGAAGGTTTTTTTCCCTTTATTTTCTTTCTTTTTTGTCATTATAGTCATTATGTCTTTTTAATGTTAAGATTCCGG
TAATATATATTCCTCATTTTTATGTCATCTCCAAAGCTCCCCATAACTGATTGATGATATCAATCCGGCTTCTGGCATA
TAAAGTTTGTTGACCTGGTTCAGTTTGTACCATGTCAAAATGTGATCATTAATTATTAGATGATGTCAGGAAAAATTTA
GTATGTGTGATAACTGTGGGTCCCATTTCTTAAAGCTTTCAAAATCCAATCTTAAGGCTCTCTACTTTGTGGCATATGA
GGGAACATAAGTAAACATTAGAGCAATATCAAACGTATTCTAAGGGTTTCATGATGTGAAACAATATATCACTTTATTA
CCAGACAGATACTTCACATCGTGAAATTTGAAAAAGCATACGAGGTGGGGCACAGTGGTTTACCCTATAATCCTAGTGC
TTTGGGAGGGTGAGGTGGGAGGATCGCCTGAGTCCAAGAGTTTGACACCAGCCTGTGCTACAGAGTGAGACCCCATTTC
TACAAAAAATTTAAAAATTAGTAGGGTGTGATGGTGCCTGCCTGTAGTCTCAGCTACTCTGGGGGCTGAGGGAGGATTG
CTTGAGCCTGGGAGGTCAAGGCTGCAGTGAATGTGATCACAGGAGTGTACTCCAGCCTGGGCAACAGAGTGAGACCTCA
TCTCTGAAAAAAAGAAAAAGTATGTAATTTTTACGTAAGAGTCACTCGATTCATATCATGAAGCTTGTGCTAAAAATGG
AATCATTCAGTGATCATGGGCTGCTTTTCAAGCATTTTTCGCTCACCCTTTACCATTATGACAGTAAACTTTGGGGAAA
GGGGAAGGCATGGGCCAATACATCTTTTAGTATTTCTTGGTTATACTAAGAACTACTGAGGAACTGCTAAGGAACAACT
ACATAGATAAAAAGTATTTTTATTATAACCCTTGTGAAAAACCTCTTCCCCCATAAAACGTTTAGTATCTTGTATGAAG
GCATAATGTACTTTTAAATATTCAAATCCAATTCCAGATTTCATTTATGTGCTATGTACTGTGTAATCCACCACGCAAA
ATGTAATTTCTTGCTTTTAATATAAATTTTCATTATTATCATAAATGAAGTCTCAGACCACAACATTTTGTTAGGTTGC
ATTCAAATGGTAATCATAATATGACCTATACCAGTTTTTGCATGGAAGGGCAGCAGCCGGCTGAACTAGATTTCCACTT
TTGTCTTGGCTCATTAAACAACAATGGACAAGTTACCTTAACTTCATGGGTCCTCAACCTTCTCATTCGAAATTGAGTG
TATGGACTGTATATTACAATATCCTTTTAAGCTTACAGAAATAACATTATGGAGGTATGAGAAAATTGTAAATGATCCA
AGATATGTGCCTAAATATTTCTTCATACATCAAGCATGCATTCATGAAATCAACACCAAGCCCAGGAAATATCAAAGAA
TAGCTCAATGTCCCTGTGAACTTATATCCAATTCAATAATTCATCCAACAAATGTATATTGAGTATATAATCTGCTAGA
CTTATGAAGCCTTAAACTTTATGCTGTACATTCTGATATATGTTGTTTTAACCAGGGGTTGGTCAGCTTTCAAAAGTGA
CCCTTTTGCTAACATTGTTCTTCTGGCTGAAAGCTAGTAAGTATAAGCAAAAGGAGAGATGTATATGATCTCACTTCTA
TGTGGAATCTAAAAAAGTCAAACTCACAGAGGCAGATAATAGAAGGGGGTTACCAGGGGGTGATGGGAACAGGAGGGAT
TGGGGAAATGGTGGTCAGAGGATATAAAATTTCAGTTAGACAAGAGGAATAAGTTCAAGAGATCTACTGTACAACATGG
TGACTATCATTAAGAACAATGTATTGTAAACCAAATATTATATGTGGTCACTTATAAGTGTGACCTAAATAATGAGACC
ACATGGATACATAGGGGGGAACAACAGACACAGGAGCATACCAGAGAGGGGAGGGTGGGAGAAGGGAGAGAATCAGGAA
AAATAACTAATGGATACTAGGCTTAATACCCCCATGACACGAATTTACCATTGTAACAAACCTGCACATATATCCCTGA
ACTTTAAATAATAACAAAACCAAAAAAAAAAAAGAAAATTTCTAAGAGAGTAGATTTAAATGTTCTCACCACAAAAAA
GTATGTGAGTTAATGCATATGTTAATTAGCTTGATTTAGCTCTTCCGTAATGTGTACGTATTTCAGAACATCATCTTGC
GCACTATAAATGTATGCAATGTTTGTCAGTTAAATATTTTTAAATGAATTTTTTGAAAAGAGGAGGGGTGTGAAAATGA
AGACTACTTCTGACTTTATATTTTATATTCTGGGGTTACAAGAATGAGACCTCCCTGATGCCTACACACAAATGGATTA
ATGTGAAACTGAAGGTTTACTTGCCCAGTTTACTTGCCCATGTTTACTTGCCCAGTTGATTCAGCTGGTTTATGTATAA
TTGTCAACAATTTAAACTCTGTCCCATTCCTCCCCAAAATTTATGTACTTTAAAAATAGATCTCATCATTTCAACATTT
CAATTTATATATGAGAGAAATAAAAAGGACTAGTAAAAATTATATGAAGAAGCAACTCCAAATATGGTAATTTATGGTT
CAAAGGAGATAGGTAATTGTCTTCTCTCAAGAGCCACTAGACCACAAAATATCAACATCAAAGATGAATGCAAGCGCTA
GGGGAAACGATACAGATCAGAGGCACCATGTGTTGTGCATTCTGGTATTTGTCAGAGATAAGGAATGAAGCTGAATTTT
TTCATGGATTTGTCTTGAAGGAAAATAAAATGAGAGGTTATGCTAAGTATAAAACTATCTTTACAAAGTTCCTTTCCGT
TAAGACCTTCAAAGATATGTAAAATCATAATTTGAGAATTGCTTTTAAGGACCTAATTCAGGTTAGCTAACAAATCATT
ATCTAAAAAGAGAGTGTTAGAATACTATGCATTTAAAGTGAGTAGTTCACTTCATGATTGAGCAGAAATTCCTGAGTTC
AAATCATGGCTCTTCCACTTGCAGCTTRTATGACATTTATGAAATTCCTTAAGTGTGCTCTGTTTCAGGTGCCTCTGCG
CCTACATCATTAGAGTTATTCAAGTATTAAATGAGATAATACATATATAGCCGTTAAACTAGCGCCTGGCATAGAGTAA
ACAGTCAGCTCACATCAGCTAGCGTTATTCACAAGAATAGGCTATACATTTCTTTCCATCAAAGATAAGTGCAAGTTTG
AATAGAAAAAATTAATTTATGAAACAAGACTGATTTTATGCTTTTCTATAGTGCCCATGATTCAAAGGAAAAGAAGGAAA
TAATCACCAACCAAGTGACCCTGTAAAATAGATAGGAGTTACGCCATGCATACATACATGCATATATATGTATTTTGGA
TATATATGGATATATTATGTGTGTGTTTGCATACGCATTATATATACATACATACCTTTGCCAAGAAAATTGGATGTCT
CATATCTAAAAAACTTTCAGTGTTAAGAACTAGCCAAGTGTCAAGTACACAATTTGTATTCAACATATATTTACAGAAT
TTAACTTTGTAAAAATTTCAAATCACTGTTATTGCTTTTCCTACTTGTAAAACAATTACAAAAATCCCTTGGCTTTTGT
GGTGTGGACTATTATAAGGGACTCTGATGCTTCATGACAGGGAGTAATTTGATCCAAAGTACAACGGAGCTSTCGTGTG
GATTTAAGTTACCAAACTATTGAAGGGACCCATGCACCACCAAGTATTCAAATCACAATATAATTTCATTATTCTCTAC

Fig. 6.272

CCTCCCTTGCAAATGTAATAACTCTGAACTGATAAACACATTGTACCTGTGTAGAAAAATGCCACCCAGAAGGAAGCTG
ACTGCTAATCTAGGCCTGTGCTGTCCAACAAGAGAGCTAGTAGCCATAGAGCACTTGAGCTGTGGCTAATCCAAATCAG
ATGTGCTGGTAATGTAACATGCACAAAGGATTTCAAATAATAGTGTGAAAAAAAGTAAAAATTTTCTCATTTGTAATTT
TCATAATGATTACATGTTTAAATACTAATACTGTGTATAGGGTTAAATAAAACATATTTAAATTAATTTCACCTGGTTG
TATCTAAGTGTCCATCAGCCAATTAACGGATAAAGAAAATATGGTACATACACACAATGGAGTACTATTCAGCCACAAA
AAGGAATGAGATCCTGTCATCTGCAACAATATGGATGGAACTGGAGGTCATTATATTAAGTGAAATAAGCCACACACAG
AAAGACAAACTTTGTATGTTCTCATTTGTGGGAGGTAAAAATGAAGACAATTGAWCTCATGGAGATAGAGTGGAAAGAT
GGTTATCAGAACCTAGGAAGGGTAGTGAGTGGCAGGGGTGTGGGAGTGGAGATGGTTAATGGGTACAAAAATATATTTA
GATAGAATGATTAAGATCTAGTATTTGATAGCACAAAAGACTGATTGCAGTCACAATAATTTATTGTACATTTTTTAAT
TAAAGAGTATAATTGGATTGTTTGTAACACAAAGGATAAATTATTGAGGTGATGGATACCTCATTTACCCTGATGTGAT
TATTAGGCATTGTATGCCTTATATCAAAATATCTCATGTACCCCATAAATATACCTACTATGTACCCACAAAAGTAAAA
AGTAAATACATTAATTTCACCTGGTTGTAAAAATAACTTTTTGTAATATGGCTTTTTAAAAATTTAAAATTACATGTTG
TGGCCATCATTCATGGTTCACATTATRTTTCTACTGAACAGCGTTGATCTAGACAGTAGACACTACGCAAAAACAGCTA
AGAAAATTATTAATTCTTTAAAAGGATAAAATTTAAAGTGATAAATGAGATCAAATTTTATGAGCAAGTCCATCGTAGT
TCACTCTGTGCTTGTTTCTAGGGAAAAAAAAATTGGAACTTTCTGTAGAGTGTGCCAGTCAATGCAAAAGTGCTCATCAA
GAGAGAATTAAAACATTAGCAAATAGGGGCTGTTGATGAAAATGAGATTCCAGAGAGGGTGAGAAGACTGAACACATTC
CTGTAAAGCAACAGGGATTAATGCACCAATGAGAATTGCTTTTTTTTTTTAAACAAAACAAAACAAAACAACAAAAAA
ACCCACTAAATTTTTCTAGGGGAAAAGTAAATGCTAGAGTGATATTAGTGAATTAGGGGATTTGTGAAGATGCATTTGA
ATGTCAAGAATATAATGTAGTTTTCTTAGTATTTTTGAATTCAGTGACCTTTTGTTAACCTCAAGAGACTGAGGCTAAG
ACACCAACATTTACCATGTGCTTCAATCATTCTCTCAAGGACGCACAGCTCCTCTGAGCTGTAATAGGAATTCAGGTCT
GTGTGACTCCTGAGCCCACATGACCGAACGTGTGCCCATGGAACACTGGTCCCTGCAACTGCTCTGCAAATAATGGTTC
TATACTTAAATCATTTTAAGAAATGTTGCATGTATCGTTACCGTCTTAAACATGATTCATTGATTTGCATATTAAAGGC
ACTGAGAATTGCTAAAAAACTGTTTAACTTTTTAAAATCTTTTTCTCAAACTTCTTTTGCCACAGAACACCTCCTCCCC
TGCACATGCATCTATATGCCATTTATCACCAGTTGCATGCTGAAACTAACCTTAGACAGAATGCTATTTGGAAATGCTG
AGATGCCTTAAATTGCCTTCTATCATCTCTCATTATTAGTTACTAAGGAAAATGGCTTTGAGAAAATATAAAATATTTC
AGGAAAATATGTAATTTGATGCTCAGATAACTCACTTTTTGCTACATCAGAAAAAGCAAAACTAGAATTTAAAAATAAA
CTTGGATGCATGTCTTGGTTATTCTTATATTCATAGTGTGTGATCCAAAGGGAGTCAAAGAAATCTGTAGCGAGGCTGC
TCACAGTCTAGGTCTCTTTTTGTGTAGGACAAAGGTAGGGCTTGGCTTCTAGTTGAAGCTACAGTTCTGTAGGACTTGG
GATTTGGAAAAGTAATGACAAGATAAATAAGTTATCACCATCAGAGACCTAAATGGTTGCAAATTTGGCACTGGTTACA
TAATGAACAAAAGTTTCATAACATATTTCATAAGATATTTTCATAACATATGTCTTACAATTACTTTTTTTATTTTCTG
AGGTTTTTTCTCTAAATTATGCTAAAAATGTCATCGAGAAGCATAAAAACAGACTTTCATTAATAGTTGCTATAGCAGT
GGGAAATTTTTGTAGGAATTTAAGTAAAAAAGCAAGTTATTTAGCAGTTTTGTTCAAATTAGACATTTCTGCCATCAGC
CTGCCCCCTGGGAACTTGGAAAGTGCATACTTGCTCTTGAGTTCTGCTAGTGCCCTAACCACACGCCTTTCATGTCTAC
CATACTTCGATGATCTTGGATTCAAATATGATCCTCTGCCTTCCTCACAGAAAGAAACAATTTAGGGACATGGACTTAA
TGGTAATGACTTTCAAAAGCTAATGACGTGCAGTCTTTCGGCACTGCCTAGCCGAACACTCTTTAGACAACCTGCTGCT
TTAGACTGGACATGCACATGATTCCTAAGATACACTAAACAAGAATATGAGATGCTGAGTCCATTGTTTCCTGTGCAAA
ATTCAGTTCACCAAGAATACTATTTTCACCAAGAAAGCCATAGACTGTGTGTAGGTAAAGAACTTTTGCGCTAATGAAA
CTTGTTATTGGCTGGGACTAGGGGCCTAAATACTAGTTTGAGATTCTGTTTCTGCTGTGCCATATAGCATGAGATMCCA
CTTTTGCCTCTATAAAGCAGGGCTATGGTTATCTTTCCTTATTACCTCAGTTGATTGTTGGCTGTGAGAACCAAGTAAG
ATATGCTTCATGGAATAACAGAAGAATGCAAGATATTATCACGGGAGGCAACATTTTTGGGATATCACATATTAGTGGA
AACTTAAAGAATATTTGAGAGGTTATCTTTGACATTTACATAAAACCATGTATGAAACAAGTAGTTCTTGTGTTTTTTT
AACCTATGAACTTTTTCAAGTGTTTTCTCCACAACATTCCTCTCTTCTACCAAAGAAAATCAGTTTACAGTCATGTGTT
TTGTAAAAGCCTAAATGGGAATGAAGGTGGTTAGTAAGAGGGTTCACAAGATGGAGAGGCTCCCATGACATTTGTAGGT
TTAATCTCGTGCCCCATGACCTCTTAAAATGTCCCCATGCCCATTCAGAATACCCCAATTCACTTCAAAGGCAAAAACA
ACGTGACATTGTGAAATCATACCRGATGTTCTAGTAGAACTGTGTTCTGGTCCTATTGAGTTCACCCAGGAGAGGCATC
AAACTCTGCAATCAGAACATATCAACACATGGCCTATTAGCTGATTCTGCCACTTGGTAGCTGTATATTCTCTCTCTGT
TTAGTGTCCTTATCTGTAAATTGAAATAATAATAATAGCTCATAAGGCTTTGTGGGGATTAAGTGAGATAATCATGTAC
AGTGCCCAGCACAGTGTCTACTGCATGGTAAATACTGCAAAAATGTTAGCTGTTGACTGCTCCTATTTATGACCTTCAT
TATTAAAAAGGGGAACTTAGGCTGACGCAGGAGAATGGCGTGAACCCCGGGGGACGGAGCCTGCAGTGAGCCGAGATCA
CACCACTGCCCTCCAGCCTGGGCGACAGCGAGACTCCGTGTCAAAAAAAAAAAAAAAGGTGGGGGGGGGGGAACTTATGA
ATGCCTTTCACTTATACCAGCATCATTAAAAAATTTAAGTTTTTTAAGAACCATGAAAAGCTAACCATTGACAATTTAAG
AAGCATGCAAGCTTGGTTTACAAAAGAACTGGACAAGCTCAGAATGGGCTAGTTCAGTGGAGTGACTGCTGCAGGAGCT
CAGGTTTTGAGACCTTCCTGTCTTCTTCCTTCATCCTTCTCCTCTTTTTGTGTTCTCTCCACACACTTTTCCTCATCAA
AGCCAAAACCTTTGTTCTTGCTATATTCTCTTTTTAGAGCCTGCTCACAGTAAAATTTTAAAAAAATGAAGAAGTGCTG
AAAGTGTAGATAAGCAATTAGACATGAGTTAATGTTTTTTATTTGCAAGAGCATTTGCATTCTAATATGAACTGAACAT
TGAGTAAATAGATTCCTGACTCCCTAACAGGGCTATGTCTTGTGTCAGGAAGCCAGCGCACTGGGCTTCTTGGTAGGCA
GGAGACCCAAGTCATCATCTGCTACTAAGGCTGGGTCTTGGAAGATGGAGAAGGCCGTAGAAGAAAGGAAAGCCAAAAA
AAGAAAGGAATGAGATTTTGATATATTAATTAGCTCATACYATAAGCCTGGACTTTTGCTAGGCATTTTCCATGGTAAT
TTGGTTATACCTCAAAACAATTCTCAACATTATTATCACTGCCACCACTTCTGTTAGCAGCTGTGAGAACAGAGGTCAT
GTGAGTAAGCAGTTTGCTAAGGGTTGCATAGCTTAAAAAGTAGTCAATAAGCTAAAGTTTGAACCCTGAGATGCCTGGC

Fig. 6.273

CTTCACAGCTAAACTTTTATTAATTACACCTGCTTCTAACAACAACAACCATGGCTAAAGTTTCATTAACCTACCAGTT
TCTAACAACATTAACAAAAACATTTTCAAAAATATAATAATAGTCATCAATAGGAATAAAGGAAACAATCCAAAAATA
GCTCTGTTGAGGTTACTGATGGATGGGACAGGAAAGTACAAAATTTTTTCTACGAAAGTTTCCCTTTGAGGATCACTT
TCCTTGGCTGTCTTGCCTTGTGAAATTATACCTTCCCTAATGGCTTGGAGCTGATTGTGCCCTTCTTTCTGTCAAGGAC
AGCTTAAACTTCATGGAATAGTTTATTTGAAGCTTGTGGGTACCAATTCCAGGCAGCAAGATACTACTTTCAGAGATTC
AATTAACTTCCTTCAGAGTCACAGCAAAAAGCGATAGAGCTAAATTGATTACCTTGAAGTGCCTTAACCGTTTTGCTGC
TGTTGTTACTTCTTGAGCCAATTTATTCTCCCAGCAATGTCACTGTTACTGAAGTTGGTCTGTTCTTTATTCTCAGTTT
ATGAATAGGAATCATCTGAATATAGTTATAGACCTCTAGTCTAGATCATTTTTTGCAAAATTACAAAGATGGAAAATT
TCCAAGCCATAGTTATTCCAAATGGCTGGGAGTGCCTTAGGAACTTATTTCTGGAGTCTTTTGAACTATTTATATTATT
GATATGAACAATGCCCCTGATTGTTAGTTAGCAATCTATTCATTGATAGGGACATGAAAGGCAGTCTGCTGCCATCTAG
CTTTTTAGTTTCTATCTTTAGGAATTTTCCGGTCCTTTCACAGAAAGACACTTTTTAAAGGAGCAATTCTTACTTCATC
CCTGAGAGGGAGACACTTATGAAGGTACTGCAGAATCTTAAAAAAAAAGTCTTCATCATTCTTTTACTTCTTTTTGCCT
TTAAGTTGGTCTTAAATGGGTAAAAGTGATAAATGTAGGTTGTGTAGTTCAAATCCATTGCAGTGACTAAGCAGTGACC
ACCCATAGGGGCAAAAACTATGTATTTTTAGAGGCAAAGATTGATAACCACAGCCATGACCCTGAGCAAGACTGTGAAA
TAGATGCAGTTCTTTGCCATCCTCCCTTTTCCTGAGTTATGGGCACTTTCTGCCTTCATAGCTGTTTCCTCTGCAAAAT
GGAGATTTTACTGTCAGAAGTCTCCTATTGCTATTGCTTCTTGGAGTTGGTTCCCATGCTCTGGGCACAGGAAAGCAAT
CTGAGATCTTCACTACTAGTATTTATTGAGCACCTATACTATGCCAGGACTGGACTGTGCTCTGAGGTCACAGTGGTAA
ACATACCGACATGGTTCCTGCTGTCATGAGCCTTCCAAAGGAATAGCGAAGAAAAACATTAAACATATCAGCCCATGAT
TAAATGCATAATTAGATAAAATGCATTGAAGAAGTAAAGATCCCAGGAAAGGAGAGAACCAATTAATATGATGGATGGG
AAATCAAGGCTGCTGGAAGGAAGTAGTGTATAAGCTGAAAAATGAGGAGTGAATAGGAATTAGCCAAGTGAAAAGCAGA
GGCAAATGGGTTTCAGGAAAAGGAAAAACATATGTACCAGTAACATTTCAAGAAGAAATGGGAAGGATTAGATGATTTC
TGTTATTCTTATTAGGTTGATCTCTTCCATGGAAGAGACACACAGAATGTAATTAATTTATAGAATATAAAAATGATTT
TTTTTTTTAGGAATGGGGAGGTGAGGAGAAGACCCGCTTCAAGTTCTGTTCCAATATTAATATGGTTTTGCTTTCTCTA
CAAACCTAAGTAAAACAATGGTGGTACCAAGGGTTGGTTGGGAGGCACTAGTTTTCCCAGTGTACATACTCACAACTAA
CATAAAAGCTAAATACGTATAATCAACATGCTTACACTACAAACACAACTTCAAATAAAATTCACTAGATCAACCGGGC
ACAGTGCCTCACACCTGTAATCCTAGCACTTTGGGAGGCTGAGGCGGGCAGATCACCTGAGGTCAGGAGTTTGAGACCA
GCCTGACCAAGGTGGTGAAACCCCATCTCTATAAAAATACAAAAATTAGCCAGGCATAATGGCAGGTTCCTGTAGTCCC
AGCTACTAGGGAGGCTGAGGCAGGAAAATTGCTTGAACTCAGGAGGCAGAGGTTGCAGTGAGCCAAGATCATGCCATTG
CACTCCAGCCTGGGTGACAGAGCTAGGCTCCATCTCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACTCCACTGGATCCT
CTCTTCCAACTTTTTTCCCCTAATTTCTTCCCTTAGCACTGATATTATCAAACAAGTGGCCAATCCTATAAAGGCTATC
AGACTCCAATTTAAAAAAACTATTAAATTTAAAAACACTCAGAGATATAATGATTGTATGCCTTTTATGAGGAAACTTA
GTACCTAAAAGAAAACCCTATAACTTAACATTAAGCATATGAAGGTAGCTATTATTCAAATAAGTAGCAGTAAAGACTT
TTCAGCTTTGGATCCTCATAAACAAGACCTGCAGGTTTAAAGATTTGCATACATCTTTTAACAATGCATCATTTTTATT
ATAGTATATTATATACTATTTTATATTTACTTAATGAGATTACTGACCTGGGTTTCAAGATATGTATGAAATATAATTA
GGATATGAAAATTAAAGATAAATTATCCCCACCAGAAATAATCTTAGCAGGTTATTTACTAAAGAATCTTAAATCCAGC
AGATCAAGAAAAACTCCCCAAGGAGTCTTTAATTAGAACTCTTTAGGATGGAATCAAAATCTCTCCATAAAAAATGAAT
CTTGCCTTAGGCTACATAAATTACAAAATCTGAAGCCCTTTAAGCAGCATTAAAACTGCTGATTTTAATTGCTCTGATA
ATGAACTGGAGAGAGACACACTAAGCTTCCTGGATTTCTGTTGGAAATGAATGGGATTCTTGCCAACTATGGATCACAG
TTATGAGGTATTCTGCACAGGGAAAATCAAAAGAAAGCAGATGGACCTTGACATGCTATGCCATCCTATGCCTTCTTCC
TTCCCAAGAAGCATGTTACAATAACTTTAAGTGAAGGTTGTCACAACTTTAAGTGAAAAGTCTCCCCTTTCTGTCTAAT
TTTTAATGTAACTTCCCCCTTCTCGATATATCCAGAAAATAGTTAATAACAATCCCTGAGGGAAAAGAAAAATGCTGCC
CTTCATATTAAAAAAAAGAAGATAACAGAGATCCCCTTAGTGGTGAGTGATTTATAGTGAAAACAGCCAACTCATTCTC
TTTTGCCTCCTTTTGACCTAGAGAACTGGATTCGCGGATTTGTAACTGGATTTTGATTATAGAGTATGTTCTATGGCTA
CAAAAGAGTTTTCCTTTGAGGAAAACTCAAACTGCCAACAGATATGCTTGGTATATCAGTTTTCAATGCTTTCAATTGT
AAATAACAGAAACCTGGACTCACAATAGCTTGAACAAATAGGAATTACTTTTAAGTAGGTGGCACCGGAGGTGTTTCAG
CTGTTGCATGATGTTATCACCATTTGCAAAGAGGCAGCATCTCCACAATTTTCTTGGCCTGTTCCTCTTGATGGCAAAT
GGCTACTGCACGTCCAGATGATCATGTCTGTGTCACAGATAGTGAGAGGGAAGGAGGAAGGATGAGAGAGGATGGCCAG
CTAAAGTTGTATCTACCCCACTTATAAGAAACACAAAGCCCTTCCCCAGAGCTTACAGCCCTTTAGCCAGAACTATGAC
ACATGGTCATCTTGAGTGCAGAAAGATGGAAGTTAACATTTGGTTTTCTGGTCTTTTTAATAAAGATAGCAAGGATGAA
GAAGTTTGGAAAAGACTGTGGGCTAGCCAATCAAATTGTCGACCACATTTGGCCTGTATTAATGTATAGTTTTTAAAGC
CTAATGTCAATTTGTTAAGGTGTCTTAAGGACAGGAAAATGGAGAAGAACTAAGATTTTTTATATCAAATACAGAGTAA
ATCTTGGAAAGGGTGAATTAGAGTGGAAAATAAACTAGACATTATCTAAGAGTGCCTTGAAGCCAGATCTTGCAAAACA
TTAGGCAAGCATGTCACTCATAATGGACCCCAGGGCTTTCCATCTCATAATGTGGATAAAAATAACAGTGTTTCTCTCA
GTTTTTAAAAATGTCACCAAAAATTCAATAAAGTATATACATACATATTGTAATTGTTTAAAGTAAAAATTTTATGCTG
TTTTGGGAAGAAAAATAACCAAAAAAAACCATCACTGACCATTGGTCATCAAAATCTGATTTATGCCATGTTTACAAGA
TAAAAACAAGAATAAATAATAATTGTTTGAAATATTTTCATCATATTGCCTCTGAAATGATTGATGTCATACTGCCTGG
ATTTAGTCAACTCAGTGAATGATTTATCAGTAGCCATGCTCTAAGGAGCTCTCTATTCATAGATACTTATGATTTGGTG
AACTGGGAAACCCACAGAGAAAGGTAAATGAAATAGGAGAGCCAGGTAAATGGGCCATGGATCTAAGAACCAGGAATCA
TGATTGTTTGGAAGAACATATCTCAGACTGAGAAAAGCTGGCGCTAAAGTAAGCTAGCATTTGATTAGAATGTTGAAGG
ATAATTTCATTCTTGGAGACAGAAAACCTAAGTAGAAGCAAAAGAAGTAGGAAATAGAAGCCTGTGTTTGAGAGATTCA

Fig. 6.274

GAGTGACTGTGTTTTATTAGAATTGCAAGAAAGGGAACTTGAAAACATAAATTTAACATGGGGCAACAGGCCTTGGATT
CTGAACAGAGGGACTTTGTTTAAGGATGGCTCTGTGGCTGTGGAACAGTTTTTCTATAGATTATCAAAATGATTCTGGA
AAAGAAATGTCATTCTGGACTGAGAGCACATACCATAGGGAAAACATGAGGCTTATGGGCTGAATTGTGTCACACCCAA
AGTCATATGCTGAAGTCCTAACCTAGGACCTCAGAATGTGGCTTTATTTGAAGATTGAGCCTGTAAATAGGTGATTTTG
ATAAAATGAGATCATTAGGGTAGACCCGAATCCAACAAGGCTGGTGTCTTTATAAGAAAAGGAGATTAAGATGCACGCG
CACACGCAGAGAAGACTACGTGGAGATGAGGAGAAGATGGCCATCTACAAGCCAAGAGGAGAGGTCTCCCGAAGAAACC
AACCCCACTGACATCTTGACCTCAGTCCTCTGGCCTCCGGAACTGTTTTAAAACATAAGTTTCTATTGTTAAAGCCACC
TAAGTCTGTGGTATTTTGTAATGGCAGCCCTAGGGAAAAACTACAATGAGCAAGTATTATTTGTATTTTAAGAAATAAT
ATTATAAACTAAATTCATGGAGGGGAAAATAGAAAAAGAGGTCATTTCTGAAAACATTGTATAGGTGTAACATAGTTGA
CACTATCAACTACTACAATGGGATCAGGAGACAGAGGGTCAGTGATAACGGAGCTCTCAAGACTGGAAACTGGGCGATC
CAGAAGGACAGGCGGTTGATGAAAGAAAATGATGAGTGTGGTTGAGGCTGCGTTTCCCTTGAGGAGGTGCTGGTGCTCA
GGGTAGAGGCATCCATCACGATGTCAGAAATGTGTGTCAGACACGAAGGCAGGAATGAGGCTGTCGAGGAAGCCATGGC
AACATAAACAGAGAAGTGCCACAGCGAGACAACCAGCCAATGAGTTGTGTAGTTTCTTGTAAGTAGCTGAAACAACATA
ACCAAATTGTTCAATTTAGTCTACATATGAAATTTCAATGTCAGAGAAAGGCCTTTAATCTCAAAACGAAATAAACTAA
AAGACATTATTTTCCTGACAGCTAAGTCTTAAAATTTCTTTTGAGAAATAAAAAAAATGGTTTTCTCTTTTAACATAGA
GGCAAACCAGTAAGTCAGATACTTCAGGGGAAGGTAGCTTGGTGATTTGAATGTATGTGAGTGTGAATACGTGAGATTA
GAATCTTACCTGAGAACAAATTTTCATGAGCATCATTGGAGAGTGGGAGAGCATGAAGACTTTTACCCTTCTCTCTGCA
GGAGAGAATTGTGCAGGAGGAGGTGGGGAGAATGCCACCAAGAACAGGTTGCCTGGGGCTAGTTTAGCGATGGGGTCCA
AACGATCTCACTAATGTGAAAGGATCATAGTTACCTTACCAAGGGAAAGTTGGCTTCAACTATATATTTCACTTCTGTA
CCAGGTTTTGCTTAAATGCTACTCTTTGGAGAATATCAAGAAATTTAGATGAGTTTACCAAATCCAAGATTGTGTTCCC
TGCTTTTAACTCTTGTTACTGAAATAGCCCCCTGATCCCCAAGAGTAATGCTTGACTGAGGTGTTTGCATGAATTGTTT
ATATCATTCATTAATTAACGTGATGAACATATTAAAGATAGGACTCCCAGTTTTCATCCCAAGGGCTTACATATAATAG
TAACAACCTTTAGAAAAGTACTGCATTGTTTATTTATAGAATGGCTTTGACTCACTTAATAATGCTCCATAATTAATTT
GTAAATTACTTTTTGACTTTGCACAATTATAATTTAATGTCATATATCTGCAAAAGAAAACACTTTTATGTTGCTAATA
TTAATTTCCCTTCATAAATTTGAGACTGTTTTGACTATAGATAAATGTAAAATGTCAATGTGGTGAGAATGACTCAGCT
TCTCAGATATTCATTTATTCTATAAATATTTTTGAATACCTACTATGTTTCAGGCACTGATCTAAGTGTTGAATAAGTA
GACAAGGACAGCCTGCCTTCAGGTTTTTTACATTCAAATAACACAAGATGATGAAGAAATTTTTAAAATAATCTGGTTC
CATTTGGCAGATAATATAGATATGCTCAGTTTTATAAATTTTGATACCTAAAGTATTGTGATAATCCAAATCATGACCT
TTAGACATTACACTATGCTTATTGATTGAAGGTTGACATATGTTTAGCATATTCTCTTATAATGTATTTAAGGACTTCA
GTGAGTAGACAAAAGAAGTAAACTTGATCAGACAACATGATTTCTGAGAACAGACTCTTCCTGGAGCAAGCATTCTGGT
TAGATTTTACAGGGCTTCAATAAAAAGGTATATGTTTATGCTTTTTGCTAGTTGGGGGTTTCCTAGCAAATGATTCCAT
GAAAACATTTGCAGGGAATTCCCATCTGTTCTATATTTCCCTGATTTGGGGGCTCTGAATCAATAATGCTGATGTAACA
GTTGGCAAATTAGATAAGAACAGCCCGAGACTTCCTTTTCCATTAGGTGTAGTCTCATGGAAAATCACCCTTGAATCCA
TCAATGGAATGAAGCAACTGGGTGGAGCCTATGGGAAAATCCTGGAGGAAGTCCCCAACTAGTCAGCCTCCCCTCTCTG
CCTTGCACTCTTGGATTCCTTAGCGAAACATCCAAAATGGCCTTCTTGCAAGGAGGATGCAGTCGGTGATCCACATACT
GACCAACAGCTGTGTGTGAAAGGCACCGTGCCCACCACAACAAAGGGGCAGTGAGGTCTGCTGAGCAGATGAGTCGCTT
TTCTGGACCCTTCCAGGCTTGCAGTTGGCTCAGATGAAAAGCTCAGGCTTATGAGCTGCCAGAAAGTATTTGGCAAAAA
GCCCACCTTTTTTCTCAAGTACACGTATTCAATTGACTTGATTCCTCAGAGAGATTTGTGAGGGTGAAAGCAAGTTCAT
TGTCCACTTTTAATGACCCTCAACTTCTAATGAGGTAATATATGTGAAAGTGATTTTTTTAAATGCAATGCAAATACAG
GGTGTTTTTAGTCATTATTTCAGTACCTGAGGAAAATGTAAAAACACAAAGCCACACATGTACCAAGGCACTACATGAG
TGTACTTGGTTTCACCATCTAATTTAGCCCTCTGAAGTGTAGAGTCCATCGAGGCTATTATTTTGTGGATTGTGTACTG
AAGTTGCTTTTCTTTGTTCTCCCAACATACACTTGTGACACTTCCAACCTCTGATATGTATATGTTAAATACAGGCTGT
TTTTCAAACAAGATAAATCAAATGCTAGCTAGGAAGTGTGCCTAGAGTTTAAAGCATTCTAGAATGTACTCCCATATAA
CAGCTATACTTATATAATACCTACATTGTGCCAGTGTTTCATATATGTGAAGTGCTTTAATCCTCACAACAAACATAGG
AGGGATGTAGTATTATTACCCCCTTTTTACAGATGTGAAAACTGCAGTACACAAGGTGAAGTGAGAGGCCCCAAATCAC
ACAGCTAGTAAATGGCAGTGTCAGACCTCAAATTCCACTAGTCTGTCTTCAGAGTCTATATAATTAACCACTGCTCCCT
GTGCTTTTAAAGGTTAGTTTAATGGATATTGTGCTATTTCTAATAAAAGGATATAATTTTTGTTATATATTTTTCTTCT
TAGTCTTCACTTTTGGATCTTGGACCACATGTGCTATTATCATATTTTAGCTCATAAGAGACTTCTCTGATAATTTTGT
ATAAAATACACTTATAGAACATTTGTATCTTGTAAATGTAATTTTTCTTACCATTATCTCATTTGATCCCCCTTATCCA
CCTCTAGAATATACAGAGCTTTATCCTCATTTTTCAGACGAAGAAATGGACCAAAGAAGACTAAACAATTTGTTCAACT
CCATATCACCAGTTTGTAGCAGTTCTGTGACTAGAAACCAAATTTCCTGGCTCTTAGTCCTACATTCTTTCTAGTATTT
CAAATCATCTTTTCATTTCTCTCCCTTATGCTTTTGGAAAGAAAATTGAGAAGAACGTTAAGAACCCCAGTAAAATTGG
AGAGGCATTTCTTGAGAAATATTTAAAATAATTTAAGAAGTCTTCACAAAAGTAGTAGGCAAAAATGTGTTACATTAAC
AACGGATCTCATTAAGTCAGTGCATACAGCTAGGTTCTGGTTTATTAATTTTCAATTTTTTCATTTTTGGGCCTGCCTA
ATCTGAACACTTTGCAGTACAATTCTGAGTGCTCTCATGCTTTGTGCTATCGCTTTCTTAAGGTAGCTCATTTGCACTT
GTTCATCATCCTGTTCCTTCCCCCAGTCTCCTGGGCTCTGTTGCTAATTATTGACCCAGGAAAGCCTCAGAAGGGGCCA
AGGCAGCTAAAATTGGAGTGCTCTTTACTTAGACTTATAATGCATTTTCCATTTTTCAGAAAGAGTAAAGCACTTTTAG
CTACCAGATCCAGAGACCATTCAGTTATATGGGCACTTGAGTTTCTGCTAAAGAATCACAACTCAATTTAATTTTTTTT
TTTTTTGGTATTTCATTCACAGCCAGTCTGGAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTATTTCTGTT
TCTGTATTAACATATGAGACAGCAGAATAATAATGTGTCCATTCATTCCATAGATATTTCTCAAAGAGTTGCCAAGAAT

Fig. 6.275

AAAGAATAGTGCTAAAAAAAGGTGGAAGATGGTTAGGTGTAAAATTACCTCCTCTCACAGGACCTGGCACATGACAAAT
GCTTCAGAAATATTTATCAAACTGAAATGAGCTATTACATGAATTGTATTCTCTGGCTTTGC[illegible]TCTATTGGGGAAATG
ATGAAGTCATTAAATATATGCGAATTGGAAAGGAATTTAGGAATCATCTTATGCAGCCCTTTTACTTTAAAGATGAAGC
AATGGAAATGCAAGAAAGTTATGTGTCTTTTCCAAGCAAGATCACACATCTATTTCGAAATAATATGCTTTTTTTCATT
GTAACATGTGTTTTAGAGATTACACATATGTCAATGTCTGTAGTGCAGGGCATAATGTGAGGAGAGCTGTTGAATGCTT
TAGAACAGTGCTACCCAGTGGAAATATAATGCACACCCCATATACAATTTTAGATTTTTATTAATAGCCAGATTTTTAA
AAGTTTAAAAGTCAGTGAAATTATTTTTTTCATACTAAGTCTTCAAAATCCAGAGTGTGTATTATATTTTTGACACATC
TCAATTTGGACTAGCCATATTTTAAGTATTTAATAGTTATATGTGTCTTGGGGGGGCTACTCTATAGACTATATGGCT
CCAGAATCACAGAGAGGGAAAAATAATAATGTATTTTTAAAGCTGCAGTATTTTTACCATGGGTTATATTTTTAAGTTT
GATTGTAACACAAAAGTACAAAAATGAAACAAACTGACTCAACACATTTTTTTCTTTTTTTTATTATTATACTTTAAG
TTTTAGGGTACATGTGCACAACGTGCAGGTTTGTTACATATGTATACATGTGCCATATTGGTGTGCTGCACCCATTAAC
TCGTCATCTAGCATTAGGTATATCTCCTAATGCTATCCCTTCCCCCTCCTCCCACCCCACAACAGTCCCCGGTGTGTGA
TGTTCCCCTTCCTGTGTCCATGTGTTCTCATTGTTCAATTCCCACCTATGAGTGAGAACATGCGGTGTTTGGTTTTCTG
TCCTTGCGATAGTTTGCTGAGAATGATAGTTTCCAGCTTCATCC[illegible]GTCCCTACAAAGGACATGAACTCATCATTTTTT
ATGGCTGCATAGCATTCCATGGTGTATATGTGCCACATTTTCTTAATCTAGTTTATCATTGTGACTCAACACATTTAAA
AAAAAAATCTAGAGTAGACCTATACAATTTGACAGATTGCATCAATAGTTACAATTTTAGACACCCCTACCCCTCCACA
CATAGAAATTAGTGAATAAGCAGACTGTCAATAGTACTGGCTCAAATAATTCTACATACAAGTTCTACCAAACTTTCAA
GGGAGGGGTAACTTCTACCTTATACGAATTATCTCATTTTACAAGTAACTATAAGTATACAATAAGTTCCATTTGCAGC
ACTATAGGAGCTTGAACTGTCTGCCAATTTTTAAAGAATATGCTCAAGCAATAATCTTGGTTATCCATATTATCTTACA
TTTCCTTATGAATATTGAGAGTTCTGTTATTGATAAATACAAAGGTGTCACTGTTTAATACACTACTGTGTAGGTCCTT
TTGCTATGCATTTACTATTTAAAGCGTAAAAACGTAGGTAGCAAGAAGATTTATCTTTCTGGCTATTCTTGAAATTCCT
GTTTCTAACAAGATATTCTGCAGAAGCAAAGATACTACTGCATTGTTCAATGTTTCCACAAAAGGTTAATATAATTGTG
GGTTCAGCTATCACCTTGACCTTTTCTTGGATCTTTGATCAGAGTTTAGGTAAATATGTTGTTAGGTTTCCCCCTTTTA
AGTTCCTGAGCTTTTGAAGTAAAACCAGAGCTGAGATAGGAAAGTGAACAGCAAGGGGCAGAGCACAGCAGAAACTGAA
TTAGGTCACTTTTCTAGAGGCTTCTGAATTTGGTACAGTAGGATTTCTGTGATCATCTTAAACCTAGCTTTTCAAAAGG
CTATTACTGTTCCATTTTATTCTCTGGCCCAGAAAATAAATCAGAAGACTTCTACATCCTTTTCCTCAAAAGCTGATTC
TGATTCTCTATATGATGCCACATTAATAAAGTTTTCCCTATTAATTACCATGATGCCATGCAGCCTTCTAAGATGTTTT
CTTTAGTTCTTAGTTCCTTTGCAGTTCCATCTCCAAGCATAAATTCTCATTAATAATCAGTACAGTGAGGAAGATAGAC
ATGTGTCAGTCAGTGAGAATGCTTGCAGCTGTAACTGCCAGAAAGTTGTAACTTAACTGGCTTAAACCAAAGCCATCCT
GAGGTGGGAGGCTCCAAGTCACTCAGTGACATTATCAAAGGCGGCCTGAGTCTTTTTCATCTTTCTCTTCTGCCAGCCT
CAAGTGTTGGTGAGTTTTCTGGTTTGTTCCTGTAAACTCGAGATGTCTGTCACAGGTCCACCTATTACATGCAGATAAC
TATGGCCAGTCAGAAAAGAGGATCTTCTTTTTACGTCTTCTTTTAAGAAAGAAAAAAAATCATTTCCAGATGGTCTCCC
CTTGTCCCACTTCCCTTCAATGTCTTATTGGCCAAAATGGTTTCACATGCCGATGTCTTAACAAATCACTGCCTTGGAA
ATCGTACTTTCATGATTAGCTGAGACAATCAGGTTTCCCTCATGGTGGCTGGGGCTGAGGCCCACCTCCCTGTAAGTAT
GTGGCTGCAAGGGTAGGTGGATATTTGAATTTCACTGGGGGCCTAGTAGGAAGGAATGGCTCTTGGGTAGGCTACCCAT
AGAGTCAACTACAAGTAAATCAGAAACTATAGTATCATAAGTGCTACAGGGAAACATGTAAATGCAGGATGCTGTAGGA
ACACGCAAGAAGGGCCCCTGGCCATGCTTGCTTGAGCAAGAGGGAGAGAGGAATGCCAGAGTGGGCTTTTAATGAAAAT
GTTATCTGATCTGAGATATAAAGCTCAAGAGGAGATAGCCAAGGAAAGGGTGGTGGAAGGAGAGAGAGGGTATCAGGTA
GACACAGTATCATGTGCAAATGACTGGGAATAAGATAAAATGTGGTAGGTTTGGGGAGATGCAGAAAAATTAGTTGGCC
TAAGGTATAGAGCATAAGTTGGGGAGTCAGTCAGAAATAGGGCTATAGAGGTAAACTGTAGATCATAAAAGATCTGATA
AGTCACATAGAAATTTCTACTTTATTCTGCTGCAGTGGGGAGCCAGTGAAATATTTTAAGCAGCAAATGACATAATTAA
ATATGCACTTCAAAAAAAAAATGTCTTTGGCTGCTGTGGGAAATTGGATTGCAAATCTTCAAGACCAAAAGTAGGTAGA
ACATGTGAGAATCAATTACAATATTCCAGGAAAGAGTGGTGAAGGGCTTTAAGATAATGTCAGTGGGGCTGGAGAGAGG
TGAATAGGTTTGATTGATGTTTAGGGGTTTTGACTAAACAGGACTTGGTTAATAGGTAAGAGAAATAGGGATTAATAAT
CACTCACATTTCTGGCTTGGACAACTAGGAGGATGGGAATGACATTTACTGAGTTAGGATATCCAAAGAAGAAGCAGAC
TGGGGGCAAGGGGAGTGAATTAATTTAAATTGTAACTAATGAAGGGCTTATTCTGTATGAAATTCAAGAGAAGTATTCC
AGTCCTTAAAGCATTTTCAAATGCCAAGGGATATATTAACCAATAAGTGGTATAGAACAATACTAGGGGTACTATAATT
TATCACAGATGGTCATCAATAAAGCAAGAGAGAGAGATAAAAGAGCTTAAAGAAGAAATTGCCTCTCTCTCAGAAAGAA
TTAGTGGGAGAATCTGATGTTCTTCATGAAAGAAAAAAATTTTAGTTGAATCTTGCATAAAAAGATTAGACAGATGGGA
ATTGTCGAGGGTGGAGGCACTGTACACTACATGAAGCATATTTAAGGAATGATAACAGTCTAGATTGCTAGCAAGCTTG
AATAGGCAAAATAAAATAGAAAGGTTAGGGAYTAGTTGAATTAGTCAGAACTGTTGAGATTCCAAGAGAAAAACAAAAT
TCACATTTTCTGTGTTGATCTATTATTGCAAGGTGCATTAGTCAGCTATTGCTACAGTAATGCTACCGAACAATCAACT
ACAAAATACCAATGACATTTGCTTCTTGCTCATAGTCCTACTAATGGGTCAGAATAGTGCTGCTTCAGGCTGCAGGTTG
CCTTCATGCTTGTTCTTCATGTTTCTCCTTCTTGGACCAGTGATCTCCCAGGGCGTGTCCTTGTGGCACAGTTTACAAC
TCCCAATGTGGCAAGTAGAAATGTTCAATACTTTGTAAGGCCTCAGTTTATAAAGCAGTATCATTTGTGCCCACATTCT
GTTAGCCACAGCACATAATRTGACTAAACCCAATATCACTGAGGGAGGAGAGCATGAGGAAGAAAAGGATGGTGAATAT
ATGCTGCAATGCCTAAAACATAATGTAAATATAGATAGCATTGGATTTGACCCATAAGCCATAAAGATTCTAGAATACC
AGTGTTCCCAACTATGGAGTGCCCAATGAGCTTCTTGACAAACTCAGGAGAGTAACCTCCATTTGTGTGACCTCCTTTC
TTTGCTCTTTATTTGTGCTTTTCAAAGGATGACATGAGCCCATAAACTACTCATTGGGTTGCTTGGTCAGAATCAGAA
CCAGTTACTTCAGGACTGTCTCATTTCATGATTAGTTGCCTTTGGTCTCATGCAGTGGTATCAGTTCATTCCTCTAGAG

Fig. 6.276

GTTTATGTTCCCTCAATCACCAGCAATACTGAGTGAATGATAAGAACTAAAGCAATAAAAAATGATTGAACTATTTTCC
TTAGTATGTAGTTATTGGACTTCTTCCAAAAATCCAGCACACTTATAAAAACCAAACTAAGGCATTTTGCTGGTTATTG
TGCCAATAGTGTGTCTTAATTAGTCCTGAGAATTTATGTGGCCCATGAAAGAGGCATAATTTTCCTAAGATTGCACAGC
TAAGTTACATATCTGAGACTTGAAGACATCCTCAGATTATGTTATCCCTAAATCTCTAATTGCTWTGTAGCAAAAGATT
TTAGCCATTTTTTTATTCCTGAATCAAGGATACATAAATAAAGTTGTATTCAATCAATCCAAAAATCCTCAAGCCCAAA
TAATCCTAGTACTTGAGCAGACCTTATAGTGTGTGTGCACAAGTGCGCATGCGTGTACTCTATTTTTAGATTATCTTTT
AAGAGGGACCGGTGACATGGTCATACAGTACAACAGAAGAACTCACTCCCTGTTTCTCTATAATTCCCATATTACACTC
AGCACTTGCTCTCCTTTCATTCTGTGGCTTCTGTGCTGCTAGCAGTGACCAGTGACTCAGGAAGGCTGCATATAGTGAA
GAAAAAGTTGCCTTTCCAGGCACAGTTCAGTCCTGAGGCGCCTTTTCACACCATCTCATAGACATTTCAGAGCCAAACT
CTAGCTTTCTTTTTATGACTACTTTTCCATTCCACACTTTTCTTAATGTTGCAGGAGATAATTTGAAAGAAAGGAAAAA
AGAACAGGGAGAACACAAAGGCAAGAAGATGAGCAAGATGCCAGATTTAAGAAGTATATTTATATTTAGTTCTTTACAA
ATTAAATTCTGCTGAGACCCTTAAATATTAGCTGTCACAGGGGTTGTGCTTGAAAAACTTGATTCCAACCCTAAGCATA
AAAATCTTGTCTAGGCAGGGCAGTAGATTGGAGGATTATCATTACACATTATAGGAGGAAGGCCCTGTTCAATGCCAGG
TTCCAAGAATGCCATCTCAGGGAGCGAGGGAAAGACATAGGCCAGGTAACATGTCTGATGTATGGAGAAAAGCCCTCAG
GGTGCCATGTTGGTGGAACAGGAGCAGAAAGGAAATCAGACTGAGAGAATGAAAACTCAATAGAAGCACAATAAACAGA
CTGAACAAAGTACAGATGGAGTCAGTTCAAGTTTAATATGAATGTCCCTGGGCCCTGTGTTTCATCCCAGTGTTAAGTG
CAGGAAATCATTGGATTTCTCCAAGGATGGGTCTTTAGAGCAACCGACTTTAGAAATTGAATACTTTAAAATTATTTTC
TATAAACAAATTTATCAATAGAAAAAATAGATTACTTAATTGGTTTATCTTAATGAGAAAACAACAAAAAGCTTCAACA
AATAATTGTTGCTGATTGGTTGGTGGGTTCGTTGGTGAATAATGAGAAGGAAAGAAGGAAGAAAAGAAAAGAAGGAGTA
GAGGAGGAAAGGAGGTGAGAGAGGGAGATTTGAAAGGGAAATAGCGGTGCTCTAAGTTCACAATTTTTAAAAGCCTAGA
GTTATTAACAAATTATGCCCTCAATCAGATTTTATATAACTTTTTTCAATCTTGTCATATATTAATGTGCTGTATTCAT
GAAATGATTTTGAGATTTTAAAGCAATGATTGACAATATAGTAGTTCATTTAAAGTTTTTACAAGTTGCTGCTGACAAA
ATATGGGTAATGAATTACATCAAATAAGTATAAATATAAGTACACGCTTTGAAGTTAAAACTCAGTAAGTTGTTATGAT
TAAAATTGTTCACTTTATTTTCCTCCTGTGTATGGGTTTCTCATAAATGGTAACTTATACCTATGAAAATACAGGGTTC
TATAAAGTCTGAAAACATAGTTATTATATATCTTAACGGACCGAAGATGTCCTTCCTGATATTATGTATAGCCTGTGTT
TCCAGACTAAGTGCCAGGCACTATTCTAAGTTAGGCACGATTCTAAGTGTTTTACTGTTCATTTAGGCTGTCTGGCTAG
TGTTTTTCTCACCTTATCAGCATCCCATTTTTATTAAGTGAATTTGCCTAAACACACCTGCACACGCACATGCATGCGC
GTGCACACACACACACTTTTTGCATTTGGAAGCCTGGCTATTATGGAACTCTAGAACATGAGAGCTCAGGGTCAACCAC
CAAGACTCAATAAGGTATGGCTGGGGATGTGACCAAGACTATCCTAGCATCTATGGCTGTGGACTGGGTGTCTTCTCCA
CTGACCCTTGAAGGTAGTTTTGCTTCACTGCTTTAGAAATGGTGCAGAGACTTAATCTTATTTCACTTTTCGGTGTTTG
TCTTGGTTCCTGTAGAACTGGCTTGAGGCTTAGAAGATGTCCTCCCACCTGCATTTGGAAAAAATACATTTCTAACACTT
CTCCTCATATGGAAATTTTTAAGTCATTGAAAAACTCATACTGCAGCATTTGTAGAAACAATTTCAGAACAGAGTACCT
TATTGCTTTTCCTAAAAGAATTTTAACTGTGCATGTATAAGTATTATAAATGCATAAAATATATAGTTAATCCAAAAGA
CATAACTATATCATGCATAGTAGTTATAGGTCACCTCAGATATATTAGTAACATCTTTTTATAGAGACTCTGTTGTTAT
TTCACTCACACAAAAGAATAAACACAGAATTAAGGTTGAAATTTACATAAGACCAGTCTAAAGCCAGCCATAGCTATGT
AATTTCCATGATTTTCTCCCAATCAATGGAAAATTACTGTCAGCTGAGCCAAAGTCTGCAGACTGTGAGCAAATGTCTG
TTTCCTTCCCACAACTGAGTGTTTGAAACTTTTTTCAATCAGTAAAATTACCATTAAAGGTCAGAGATTAGTTTTTCAT
GCATGATGGATTCCATTTGCTTTAAAAGTATTATACCAGGAGAGTAGACTTTTTTTCTGACTTTAGAATCAAATTAGAA
TTCAAATATTCAGAGTTTTGGGTCAACCTCAAACTATTTTATTTTGTTTATTTTCCCTTGACAAAATGTTATTGTTTTA
AATAGGGAAGGAGAAAGGTCTTGGGAAAACACACACACACACACACACACACACACACACACATATATATGTACTCTCT
CATATTTGAAATTAGCATGTAGTTTAAGGATACTGCACACAGCTCTATGATGAGCTTAACTTGAATCTCCTTAGATTAT
GAGCATTTTGAAAGCAGGGACTTGATTTTTTAACTAAATACCTTTCATGTTTGATAACCTGTTCCTTTTCCTGTGTGTA
TTGTCTTAACTAAAGACTGCCTGCAATGAACAGAAGGGCTATGGTCTTTTTTTTATTAAGATAAAAGAATTTTCCAAAT
CGTTGTTTATAAAATAAAAGATTAGAAAAATTCACCTGTGTATAAATTGAACTAGACTTCTATAACATAGCAGCCATCT
TGTGCAGAAAGGGGCTGCTTACGTAGTTTATTTCTTTAACACACAGTTGCTAATTACAAAAACAGCATGCATCCAGAGA
TTGTGAAAAAAGAAGTTAAAAAAAATCTTGCCTATTATTCTACCACCGTAACACAATTATGTTTAACATTTTTCATATT
TTTAATTTATTTTCTCTTTCCATAAATTCTAATCTGTCTATAAATGTACTATTGTGGTCTGCTTCGTTGACTAACAGAA
TATTTTCACCCCTTTCAGAACCCTTTTTTTAAAAAATGGCTTCTTTTGTGTATTTGAAACAATTTCAACTTAACCCTAT
TGCATATATTCTGTAAGTAGCTGTCCTTCATGAAACAGACAACTTTTTCTTTTAAAAATCAAGGAGATTGTACAGAACT
TTGTGATTTTAATTACTGCATGGCAAACTAATTCAGTCTCATATCCTTTCCATTTAATAGGGATTTGTCCCTAGCTATG
TGACCTAAGCAAGCTCTTTAACTGTACTCCACCTCAATTTGCTTATCTGTAAAACATGGATAATATTATTTTTAGTCTA
AAACTTCCTCTGGTATGACAGAAAAGACCAATGTGAAACAATTCCCTGAATTTGTCAATAAACCATGTTACATTTATAA
AAATGCCTCCAGTGTACCCAGACCAGAGGAATCTGTGGCTTATACTAAAACGTGTATTATGTATTCATTCTCAAGGTAT
ATGCCAACAGTTAAGTTAGAAATCCATCCCTTTCTCTGTCACTTGTCCAAAGTCAATTACTCCATGCTTCTTTTACATA
AGGAAAACTATCTTAAAAGGAGGAAGTAAGATCACGGACAAACAAAAGTTCATAAGGTCTTTCATTTTACTGCCTTTCA
AAAGGTTAAGATCAGAGAACTTAGACATGCATAAGCTTTGGTTTGAGGAACAATTGAGTCAACCATCGTAACAGAGGGC
CTGAAAGTATCTGAAGGTAGAATGAATAGTTTATAGTAAGCCAGTCCACTCTCAGCTCTGAGAACATCCAGCTGCATAA
CCTCAAGGGAACTGCGTGGAAAAAATTAAGGGAAATTCTTTGGGCTTTAGAGCTTTTCATTTCCTATGAACAAGGCATC
TCCTGCCCTTGTCTCACCCATATCTCCATTGTCCTCATGTAGTCTTCTGCTGGTTCACTGTGTGCCTGGCAAGTCAGGT
TCTTACGCGAGGGAAAGAGCTGTTTTAAGTTGTTTATGAATAGAGAAAGCAGATTCAGTCAGACGTAATCTGACTCTGT

Fig. 6.277

ATGCCTGCAGGGGTTGTGGCCTTTGTTAGTTTATTATGCCTGTAATTTGGGAAGTCATGCTGCAGAGATGTAAAGTGGG
ATGGGCCTGAAATAGGTCTTGTAATAAAAAGGCAGTTAGGGAAGCCTGCTGGTGTCCTGCCTGGTTACTACTATCTAAG
TGCAGCAATGTGTTAGTTGATTTTAATAAAGAGTTGAAATCATTGTTAACTGGCCTCCCTCCCACTGAGTGAAGAAGGC
AGATTACACAGGCACACGTTTRCCTCCCCTAGTGTGTACTATGAATGCAGCTGCTTCTGAAGGGCCAGCACGTGGCCTT
CTTAAAACTTTCCTTGGCTGGGGTTTCCCTTCTTGCCAACTGGTGCCCACCAAGCCAGTGGATGCTCTCAACGTCTAG
GCAAATGCCAAAAAATGTCATCTTTGGCTCAGATGTGCACTGGCCTGTTAGAGACAACTGCCATGCAGAGAAGGAATGTC
ATCAGCTGCTAGGTCTCAAATTATCAGCCTGGATTGACAGCTGCAGGATGTAGTGCCTGCCTATAGTACTGAGGCCATG
ACCCACCTCTGGAGAGACCACAGCCTCATCCCTAGAGTAGAACTGGAAATTCTCCATTGAGACAGGAAGGCAGCACTTG
AACCTGGCAGGTTTTGGAGTGAAGTGTCTAAGGACAGAATTTCTCATTTCTCCACCTCTGCCCATGTGTAAGGCAGCAA
TATTTTCATAGAGGTGAAGAAGGCAGGTGTCCCGTGGTTATTATGACATCTGTTTACCTCATTCTAGTCACTGTGCCAT
GTTTCACAGCCATTGTCAACTACATTTGGTGAAAACTGTTTCCTCCGTCCACAACTGGAACATTGACACTAACCACATT
CTAGAGTTCATTACATAGAGCTGTGTCTGTGGGTAAGTTAACAGGTAGTTTAAATAACTAGATATAGTCTTTTCCTCT
TCCATGTAAGCCAAGATAATATTTCCACTTCTCCTTCTGAACATGTGAGTACAGTTTATATATAAATCAACAGCAAGAT
GGAAATTTACTCTGAGCTTTGTGATGTTTTCACTTTAAGATGCTGTAGTTCTGATCCTTTATACATTTATTTCATTTTC
CCCATCTCAACCCCAGTATATAGCAACACTCACCTGCTCTAGAACATGATTATCAACTGTTTCAGCTATCAATGTAACA
TTAAAAAAAAAGTTCTATGTTCAAAGACTAAAGGAACCCAGGTAGTTTCTTTTAAACAGAAAGACTAGTTTTCATGATC
ATAAACATGTAAAGAAATATGTCATTTTTGAAATTTCATGAATCTTATGTCTATACCGATTCCAATTCCAAACTCAGAC
TGGCAATCTGCCTTTATTATTGCAAAGCCCCRTAGCTTGTTATCTTCATGTACCTCTTGATCAAGTATTTAAGTGAAAT
AAAGAGTCTAAATGTTACGGGAGGTGAGTCCAGGCAGGGTCTACGGCCCTCAGTTTTTGTCTTCCTGGAAGAAAAAAAT
TCAGCTGAGAGACAGATGTAGATTTCAGACAGAAGCAAAAGTTTATTGAAGCAAGTACATTTGGAAGGGACCAAGTGG
GCAACTGGAAAGATTGAGTGTCCCGCCTGATTATTGGCTCAGGACTCTTATAAAGTTACTATTTCCTGATTCTTCCTGA
TCTCCTCCCATCATACTTCCTTTTGGGCCAGCTGTTGGCTAATCGCCGCGTGCTCAGTGACTTGCCAGTAATCTGGGAG
GGGCTGCATGCGCCATTTGGTGGTTGTAGTTATGCACATGTACTCTTTGGGCAATTTTCCTTTACTGGTCTAGTGCCCC
CAGAGGAAGGTCATATACCAGTCAAACTTTGCCATTTTGCCCCTTACTGTGCATGCCTGCTCAATTCCTAGGGTTTTAT
CGCAAAGTTGTTGCCTACAAGCTTAAGATGTTTCCTGTTAGGAAATTTCCCCCTCCCTGGTGCCAGCCATGACCATCTA
TCATTCCTGAAGAGGCCACCTGACAGTCACAATGACAGTCATTTGACTGTCTCCTGACATTCCTTGGGGCCCTATCCTG
CCCTGCTCATATCCACCTATCTACCTACCCTAACATATTCCCCCCTCAAGAGTGTGAGACTCAATTATTTGGGGCTAGT
GGATGAAGGTCAGTCCTCTGTGGCTGCTTCCTGCTGAAATAAGGGCTGTATTTGTCCTCTGGGTCTCAATCTCTTGCTA
ATTGTCAGAACAGAATGGTCCCATCGGTAGGTAGAATTGGTGTCCAGCCAGGTCCAGGGGAAACAGGTGTATGTTTTCT
TCACATTTGGGTAGGGAGGTAGATATTCCTGTATTGCAGAATTTCTGCTCCTCAGTTCAGCTAAATCCAGGTTCTGTGT
CACGACCAGGAAAAGTTAGGCATGCAGACACGTGGAAGGGTGAGGGGAATGGAATTTATTATTTATTGGGCGAAAAGGA
AAACAAGAAAAGAAAAACTTTCAGCAAAGTGAGAGGGGTTTCTGCCAGCAGGCTCCCATCTCACAGATTGGATTCCAAG
CCCCCACACACGAGCTAAAGTTCCCAGGCTCTTTCCCCCCAACAAGGCATGAACTTCCTGGTAGCTTTACCCCATCGTC
GCAGTGCACAGGCGGGCGGGAGATTCTCCAGGGATCCTCCCTCTTATCTGCCTCCTGCATCTATCACCTGCATTATTGG
GAACTTGGTTTGAAATTGTTATATCCTGGAGAAGACAAATTTATCTAGTAGGTTAAAAGGCAGGGGCCAAAAAGAAGTA
GACGTATGGAGACAGCTGGTTCGAGCAGGGGAGGAACCATGTGAGCAATGGGAGAGCAGATTTTACAGAGTTCCAGATG
GAATCTGCTGAGGGATTTTCTTTCCCAGAGTCATGAAGCCACTTAGCGTGGTCACAGATTCTCTTTATATGTTCCTCTA
CTTGCCCACTATTGTTGACACAAGTGCAATAGGGTTTATTGATGACAGCACAGACGACTCTGTTCTGCAAGGAGGTAAT
CTAGAGCTAGTCTGTTGTCCATGACTGCATTAGCTACTGAATTCAGTGAAGCCTTGAGTTTAGAGATTCTGTTCCCAGT
TCTCTGACCTAGGTCTCCAATTTGTGTAGAGAGGTTTTGGAGGGTGACTTTATGATAACTGAATCCTCTGTATGGGGCA
GCTAATCCTATGGCAGCCCCTAGCCCTACCATTATAAGGCCAAGAGCTCTCCTTTTTTAAGAATTTGTAATGTTATAGA
TGGTTACACCTGTTCCTTGTGGCCCCAGGAGTCCTAGGGCACATCCCCTGTATGTTGGGTGTTATCTATGCAGATAAAA
AGGTTTACAAGTGAGGGGGTTGAATAAGTTCTTTTAGAACTTCCCTCACAGGGCAGTTTATTTTGTTTAGGTCCATATA
AAAATACATAGCCTGGAGGGGTGTAGGCCCACTCGGGAATGTTGGTTTTGAACCAAGTGTAAGCATAAGCAATCCCACC
ATGAATAAGATCCAGAGTACTGGGGCTACCTTATGCTGAGCTAGCATTAGTTTGAAAGAAAAGAAGGCATTACTTATAA
TTTCATTGAAAGAGATATTATAGATCTTCCAATGACTCACAGGAATACTCAGGTGCTGGTCCTATTGTTGATTGTTCAG
AAGCCTCTCAAGGTTTTATTTAGGAATGATGTATCCAACTAGAGGTGCCAGGAACTTTGATAGCTGTTGCAGTGGAAAG
GAAAACAGTAAAAGGGCCTTTCCATGAGGGGATTAGTTGAGATTTTGTAGATCCATCACTTTAGGTTTTAATAAGGACC
TGGGTGGGTACACAAGTTGGTTGTTAGAGGGTCTGGAGCCAGCAGTACTCTCTGTATATATATATTGGTTCTAGGTATGA
AATTCTCTGTCTTGGATTTGGATACTTTGTACCTTACATTTTGCTAGGAAGKTTAAGGTTTGTACTGCATATTGTTGTG
CAAGCTTTATGGAGGGGGAGCAGATGAGTAAGCCATCTACATACAGCAGAAGTTGTCCCCACTCAAGATATAGCTTGGT
TAGATTTCTTTGCTGGGTCTTGTCCAAATAAGTGTGGGGCATCTCTAAAACCCTGAGGTAGGACTGCTGGCTTTCCTGG
GAGAAACTGGGATATTAGGGGGAAATATCAGTCCAGATGTTGGGTAAATATTAAGTGGATACCCATTTTGGAAAGTATA
TTCCTACTCAAAAGCAGTGTGAGGCATTTAGACATTGCCAGGGACTAGTGGGAGAATAGTAATTAGTCCCATAAGCAAT
ATAAATAAAGGGGATGTGAATCTTTAGAGGAAGGGGTTGCTACTTGCTCCTGTTACCCAACAGAATTTGGGGGTAAGTT
GCCTAGAGAAAAAGGTTAGCACAAAGTAGGCAGTTCTTGTATTTAAAAGGATATTTATAGCACTACCTGTCATTTCCAG
AGTTTCCCTTGGCTCTGTTCCTTTAATGATGATGTCTGATTTGGAAGCTGGCCAGAGTGGAGGGCCCCTTCAGCTCAAG
GCCATTATTGGATGGGGGTTCAACTGGGGGACCTTTTGGATCCCAGGGCAGTCCCTCTTCCAGTGGGACTTATCTCCAG
CTTATCACAAAGAGGGCAGGCTGTGTGGGGCTTCCTCCCATTTGGCCCATTTGGAAAATTCCTTCTCCAGTAGCCTGGT
CTTCTGCATCAGTGGCAGTTACCTGGAGGAGGGTCCTTAGGAGACCCTGGAGGGGGCTGGTGGGCTTGTAAAGCAGCCA

Fig. 6.278.

ATAGTTGAGCCTGCATCTTGTCCCTGCATTTCTCCTTTTCCTTAGCCCTGTCCTCCTTGTCCAGATCTCAGTTATAAAA
GACTGAGGAGGCTAATTTGAGGATTTGTGGCATAGGGGCACTGGGTTCTAAGGCTGACTTTTGTAAATTTTCCTAATGT
CTGGAGCAGCTTGGGTAAATTGTCCTTTAGGACTAGTCCCTCAGGAGATTCTGGGTTTAAGTTTGGTGTGCTTAATAAG
TTTCCTGTAGACTTTTCAGAAAGGCTATAGGATTTCCATTTGGCCCCTGGTTTATGGTGGCTAATTATTGTAGTTTAGA
GGCTTGATCTTACTTCATTTTATTACCTCTATTAGACACAAGAGCCTATGGTTCCTGGCCCATATTCCCGCTTTGGCAT
TGTAGTCCTGATTGGGGTCCAGCTGGGGAACAGCTGTAGCCCCTCCAGGGTAGTTGGCATTTTCCAGGTGTAAGTCATT
TCGACAGTGGATTGCTGCTCCGCAGATGGTCTGTCTTTCCTCTTGTAAAAGGGCTTGTCCCAGGAGTACATTTATGTCC
TTCCAAATTAATCTAAATGTAAGAGCCAATTTGGGGAAGCCCTCTATGAGCCTTTTGGGGTCATCTGAGAACTTTTTTA
GGTTTTTCCTAAGTTGTCAAAAGTCGTACATGGAAAAGGGGATCTGGACCTGGACGAGTTCAGTTGGCTCACTTACCTC
CTACAAGCTTGGAGAGGAGAACTAAGGAGCCCGGTGTAAAGTGGGGCCAATTCCAAAGGTCTGGGAGTGGGATAAATAG
GGGGAGGATCCAGGGGTGGCTGTTTCTCCCTCTTTCACCTCCAAAGGAGGAGGTAGTTTTTCCTTTTGGCTTCTGGAGG
AAGAAATGTTGGAGAGGAATCAGCAGAGGAGTCTCCAGGGCCGATGCAGGGCCCTGGAGGAGATGGCTAAGCATAGCTA
GGATGTGAGGTTTGCCTTACAAGCTTTACGAGGATTAGGGTCTTCCCTTTAGGCCATAAAGGTTTGTAAATAGGGGACC
TCTGGCTTTTTGCCCTGATAATGGCAGAAAAGGTCTAGCCGGAGATTGGTATTAAAATTTGTACTTCCATTCTCTAGCC
AGACTTCCTCTGCAATGAAAAATTAGTTTTTTCATTTTAGGGTTTGGTGGTTGGATTTATCGCAGATTTTAAGGATGCA
TCCAAGGGGTCAGTCCCAGAGTATGGAGACACCGTTATCTATCTGCAAGACAGAACAGGGAAGAGTAAGGAAGAGGAAA
GAGTCCCTTCTTCTTCATCTTTTTTCTTTTTCTGTTTTTTTTTTTTTTTTTTTTTTTTTTTGAGACAGAGTCTCTCTCT
GTTGCTCAGCTGGAGTGCAGTGGTGCAATCTCAGCTCATTGCAACCTCTACTTCCTGGGTTCAAGTGATGCTTGTGCCT
CAGCCTTCCGAGGAGCTGGGACTACAGATGCATACCACCAAGCCCAGCTAATTTTTGTATTTTTAGTAGAGACGGGGTT
TTGTCCTGAACTCAGGTGATCCACCCGCCTTGGCCTCATAAAGTGCTGGAATTATAAGCATGAGCCACCACGCCCAGCT
GAAAGCATTCCTTCCTGATCCCCTTATACCTTGGATCAGAGTAGTGAGTAGGGCATCCCCCATTCATCCTGGAGTTCTG
GAATAAACCAGTGATTACCAGGTACCACTAACCCTGGTCCCACATTTCCCTCCAGGACCAGCCTTCATCTCTCTGCTAA
TGGTAATCTGTCCTGCACCTGTGGCCTCTGGCTGACCTGTACCTTTGACACTGTGATCTTACAGTGACCTTTGTTTGGA
GCATTCCAGCAATGAAATGGTTTTCCTTTCTCTCAAATTCCCATTCTCCATATCCCTTTAGGTAGGTGAGGATCTTATC
CCTAGCCAGCAGCTGTAAGGGAACTGGGCCTTCCTTTCTCTGGACATAGCACTGTAGGTCCCAGTATATGTTAAGAATG
TAGATGGTCAGAGGAACAGAGGAAAACCTGCATCTGAGTCCCCTTGTCATCCCTCCTGTGGATTCCTGGGGAAGCATGG
AAAACAAGTATTTAAAATGACAGGACAATCCATCTGCCACCCGTGGGAATGGTAGAAAATAAGGGATATTCATGGAAGG
CTGCTTTTGTACAGTCTCACAAACAGCAGCCCTTAGACCTAAGAGGACATTGCCTATCAGTCTTCTCAGTGTAGAGGAA
GAACTGTCAGGGCCAGGGAGTTTGGGATGAGAGACCACAAAAGGCAGAGAAAGAATTGTCCTCTCCCCAAAGTGCAGAT
AGCTCTAGAAAGGAAGTAGGAGTTGCTCTTAATGGACCACATACAGATGCCCTATGGAGACAAACAAATGACCTCAAGA
GCCACTGGAAAACCTGGTCTCAATGTGTAGCAGGATTTAAAAATTCATGATAGGAAATAAAGAATTGGTGGAGACAGAG
TCTTCCCAATATTAAGCAGAGAAAGAAGTTGCATGATATGCAGAATAGAAGCAGGGAAGAGGTTGACTTGCCCCCAAGA
CAGACAGTGTGGCCAGCATATAAGGCCATCTCAAAGTCCACAGAAAAAAAGGAAGCATAATAGGGTGTAGACTTATTGG
GGAAAAGTCCACTTTGGTTAAGGAAATGAAGGTCTCCAGTCTTTGAATGGCCTAGGCTCAAGCCCTATCACCCTTGTGA
GCCACCTGTCCAAAAGGGCCACAGTGACTTAGGTCTACTCAGTACAGACTCTGAAGTCCTCCACCTCTGCTGTCGCCCA
CCAGGATGAACTGAGGAATCTGCTAGAGGGAAGAGTGACCAAAGAGAATTTTTCTGGAGATGGGCTGGTGAGTGAGACA
GCAAGAGAAAGAAGACCTCACGTAAGCAGAGTTGGGTGCCTCCAGCCAAAGATGGCAAGGCACAGAGGGTCTTACCGAG
AAGCTGCAATCTGATTCATGACACCAAAATGTTACTGGCAGCGGGTTTGGGCAGGATACACAGTCTTTGGTTCTTATTG
TCTGAGAAGAAAAAATACATCCAAGAGACAGAAGTAGATTTAAGATGGCAGACAGGAGGCAGGACTAGATTGCAGCTCT
GGACAGAGCAGCATGTGGAGGCTCGCATTGTGAATTATAGCTCCAGATTGACTGCAAGAACAAACCAGCAACCTTGAGA
GGACCCACACACCCTCTGAAGGAAGCAGACTGCTCTTGCAGGACCTGGGAAACACCCCAAATACTGTGAGTACCCCAAC
TGTGGAAGTGGGAAAGGGAGACCCTCCTCTCCTGAACACACACCCCCACTGGAGAAGCTGAAGGTCTGTTTGCAAGAGA
AGTTTCTGACTTTACCTGGAGCTGAGTCAATGTGGAGAGCTGAGTGAAATACAGAGGCAAAGAAAGTAGCAGAAAGGCC
CTGGAAGCTCTCTGAGTCCCCTAGCAGGCCATCCATGCCTGGCATCACAGGGATCCATCCAGAGGGCAGCCAGAGCCAG
AGGTGCAAGGGGTAAAACTCTACAGGGAGAAGAAAATCTCTAGCTGAAGTTTGTAACAATTTGAATGGGGTGAGAAGCC
TCCTGGCCAGAACTCAGGGGAGGGCACACATCTGGCGTGCAGACTCCACAGGTGGAGTAGAACCAATCCCTTTCATTCA
CAGCTGGGAGGTGGGTAGCCTGGGGCAGATTTTCAAGCTCATCTTGCCCTCCAACTGAAAATGGACTCAGGCTGTTAGA
GGGTGGGAGACACAGTGAGAGTGAGACTAGCCATTTGGTTTGGGTTTGCGTGGAAGCAGAGTGAGGCCTGTGACTGCTG
GCTTTCCCCCACTTCCCTGACAACCTGCATGACTCAGCAGAGGAAGCCATAATCCTCCTAGGTGCACAACTCCAGTGAC
CTGGGAATCTCACCCCCATCCCCCATAGCAGCCCTAGCAAGACTCACCCAAGGAGAGTCTGAGCTCAGACACACCTAGC
CTTGCCCCCACCTGATGGTCCTTCCCTATCTACCCTGGGAGTGGAAGACAAAGGGCATATAATCTTGGGAGTTCTAGGG
TTCCTCCCCATACTACCACAGCTGATGCTCTCTGGAAGGCAACACCTCCTGGCAGGAGACCAGCCAGCACAAAAATAGA
GCATTAAACCACGAAAGCTAAGAACCCCCACAGAGCCCATTGCGCCCCCCAACCCCTACCCCCTGCACCAGAACAGGCA
CTGGTAACCTATAAAGGAAAATCTGTGAGATTAACAGCAGATTTCTCAGCAGAAAGCCTACAAGCTAGAAGGGACTGGG
GCCCTATCTTCAGCCTCCTCAAACAAAACAATTATCAGCCAAGAATTTTGTACCCAGTGAAATTAAGCATCATATATGA
AGGAAAGATACAGTCTTTTTCAGAAAAACAAATGCTGAGAAAATTTGCCATTACCAAGCCACCACTACAAGAACTGCTA
GAAGGAGCTCTAAATCTTGAAACAAATCCTGGAAACACAACAAAACAGAACCTCTTTTTTTTTTAAATTATTATTATTA
TACTTTAAGTTTTAGGGTACATGTGCCATGCCGGTGTGCTGCACCCATTAACTCGTCATTTAGCATTAGGTATATCTCC
TAATGCTATCCCTCCCCCTTCCCCCCACCCCACAACAGTCCCCAGAGTGTGATGTTCCCCTTCCTGTGTCCATGTGTTC
TCATTGTTCAATTCCCACCTATGAGTGAGAACATGCGGTGTTTGGTTTTTTGTTCTTGCGATAGTTTACTGAGAATGAT

Fig. 6.279

GATTTCCAATTTCATCCATGTCCCTACAAAGGACATGAACTCATCATTTTTTATGGCTGCATAGCTTTCCATGGTGTAT
ATGTGCCACATTTTCTTAATCCAGTCTATCATTGTTGGACATTTGGATTGGTTCCAAGTCTTTGCTATTGTGAATAGTG
CCGCAATAAACATACGTGTGCATGTGTCTTTATAGCAGCATGATTTATAGTCCTTTGGGTATATACCCGGTAATGGGAT
GGCTGGGTCAAATGGTATTTCTAGTTCTAGATCCCTGAGGAATCGCCACACTGACTTCCACAATGGTTGAACTAGTTGA
CAGTCCCACCAACAGTGTAAAAGTATTCCTATTTCTCCACATCCTCTCCAGCACCTGTTGTTTCCTGACTTTTGAATGA
TTGCCATTCTAACTGATGTGAGATGGTATCTCATTGTGGTTTTGATTTGCATTTCTCTGATGGCCAGTGATGGTGAGCA
TTTTTTCATGTGTTTTTGGCTGCATAAATGTCTTCTTTTGAGAAGTGTCTGTTCATATCCTTCGCCCACTTTCTGATG
GGGTTGTTTGTTTTTTTCTTGTGAATTTGTTTGAGTTCATTGTAGATTCTGGATGTTAGCCCTTTGTCAGATGAGTAGG
TTGCGAAAATTTTCTCCCATTTTGTAGGTTGCCTGTTCACTCTGATGGTAGTTTCTTTTGCTGTGCAGAAGCTCTTTAG
TTTAATTAGATCCCATTTATCAATTTTGGCTTTTGTTGCCATTGCTTTTGGTGTTTTAGACGTGAAGTCCTTGCCCATG
CCTGTGTCCTGAATGGTAATGCCTGGGTTTTCTTCTAGGGTTTTTATGGTTTTAGGTCTAACATGTAAGTCTTTAATCC
ATCTTGAATTAATTTTTGTATAAGGTGTAAGGAAGGGATCCAGTTTCAGCTTTCTAAATATGGCTAGCCAGTTTTCCCA
GAACCGTTTATTAAATAGGGAATCCTTTCCCCATTGCTTGTTTTTCTCAGGTTTGTCAAAGATCAGATAGTTGTAGATA
TGCGGCATTATTTCTGAGGGCTCTGTTCTGTTCCATTGATCTATATCTCTGTTTTGGTACCAGTACCATGCTGTTTTGG
TTACTGTAGCCTTGTAGTATAGTTTGAAGTCAGGTAGCGTGATGCCTCCAGCTTTGTTCTTTTGGCTTAGGTTTGACTT
GGTGATGCAGGCTCTTTTTTGGTTCCATATGAACTTTAAAGTAGTTTTTTCCAATTCTGTGAAGAAAGTCATGGGTAGC
TTGATGGGGATGGCATTGAATCTTTAAATTACCTTGGGCAATACGGCCATTTTCACGATATTGATTCTTCCTACCCATG
AGCATGGAATGTTCTTCCATTTGTTTGTATCCTCTTTTATTTCATTGAGCAGTGGTTTGCAGTTCTCCTTGAAGAAGTC
CTTCATGTTGCTTGTAAGTTGGATTCATAGGTATTTTATTCTCTTTGAAGCAATTGTGAATGGGAGTTTACTGATGATT
TGGCTCTCTGTTTGTCTGTTATTGGTGTATAAGAATGCTTGTGATTTTTGCACAGAACCTCTTTAAAGCGTAAATCACA
AAGGACCTGTAAAACAAAAATACAAGCTAAAAAGCGAAAACAAAACAAAACAAAAGTATACAGGCAACAAAGAGCATGA
TGAATGCAATGGTACCTCACATTTCGATACTGACATTGAATGTAAATGGCCTAAATGCTCCACTTAAAAGATGCAGAAC
TGCAGAATGGATAAGAACTCACCAACCAACTATCTGCTGCCTTCAGGAGACTCACCTAACACATAAGGACCAACATAAA
CTTAAAGTAAAGGGGTGGAAAAGACTTTCCATGCAAATGGACACCAAAAGCCAGCAGAGGTAGCTATTCTTGTGTCACA
CAAAACAAACTTTAAAGCAATAGCAGTTAAAAGAGACAAAGAGGGATATTATATAATGGTAAAAGGCCTTCTCCAACAG
GAATATGTCACAATGCTAAACATATATTCACTTAACAATGGAGCCCCCAAATTTATAAAACAATTACTAACAGACCTAA
GAAATGAGATAGACAGCAACACAACAATAGTGGGGGACTTCAGTACTTCACTGACAGCACTAGACAGGTCATCAAGACA
AAAAGTCAACAAAGAAACAATGGATTTAAACTGTACCTTGGAACAAATGGACTTAACAGATATATACAGAACAACTGCA
AAATATACATTCTATTCAACAGTGCATGGAACTTTCTCCAAGATAGACCATATGATAGGCCATAAAATGAGCCTTAGTG
AATTTAAGAAAATTGAATTATATCAAGCACTCTGTCAGACCACAGTGGAATAAAACTGGAAATCAACTCCAAATGGAAT
CTTCAAAACCATGCAAATACATGGAAATTAAATAACCTGCTCCTGAATGAGCATTGTGTCAAAAATGAAATCAAGATGG
AAATTATACAATTATTTGAACTGAACAACAATAATGACACAACTTATCAAAACCTCTGGGATACAGCAAAGGTGGTGCT
AAGAGGAAAGTTCATAGCCCTAAATGCCTACATCAAAAAGACTGAAAGAGCAAAAAAGACAATCTACAGTCACACCTCA
GGGATCTAGAAACAAGAACAAACCAAACCCAAACCCAGCAGAAGAAAGGAAATAATCAAGATCAGAGCAGAACTAAATG
AAATTGAAACAAAAAAAAACCATACAAAAAAATAAATAAATAAATGAAACAAAACCTGGTTCTTTGAGAAAATAAATAA
AATTGATAGACCATTAGCAAGATTAACCAAGAAAAGAAGAGAGAAAATCCAAATAACTTCACTAAGAAATGAAACAGGA
GATATTACAACTGACACCACTGAAATACAAAAGATATTCAAGGCTACTATGAACACCTTTATGCACATAAACTAGAAAA
CCTAGAAGAGATGGATAAATTCCTGGAAAAATACAACACTCCTAGCTTAAATCAGGAAGAATTAGATACACTGAACAGA
TCAATAACAAGCAGAGAGATTGAAATGGTACTTAAAAAATTATCAACAAAAAGAAGTCCAAGACCCGACAGATTCACAG
CAGCATTCTACCAGACATTCAAAGAATTGGTACCAATCCTTTTGACACTATTCCACAAGATAGAGAAAGAAGGAACCTT
CCCTAATTCGTTCTATGAAGCCAGCATCACCCTAGTACCAAAACCAGGAAAGGACATAACCAAAAAAGAAAACTACAGA
TCAATATCCTTGATAAACATAGATGGTAAAATCCTTAACAAAATACTAGCTGACTGAATCCAACAACATATCAAAAAGA
TAATCCACCATGATCAAGTGGGTTTCATACCAGGGGTGCAGAGATGGTTTAATGTACACAAGTCAATAAATGTGATACA
CCACATAAACAGAATTAAAAACAAAAATTCCATGATCATCTCAATAGATGCAGAAAAAGCATTCAACAAAATCCAGCAT
CCCTTTATGATTAAAGCTCTCAGCAAAATCAGCATACAAGGGACATACATTAATGTAATAAAAACTATCTATGACAAAC
CCACAGCCAACGTAATACTGAATGGGGAAAAGTTGAAAGAATTCCCTCTGAGAACTGGAACAAGACAATGATGCCCACT
CTCACCACTCTTCTTCAACATAGTAATGGAAGTCCTAGCAAGAGCAATCAGACAAGAGGGAGAAATAAAGGGCATCCAA
ATCGGTAAAGAGGAAGTCAAACTGTCACTGTTTGCTGATGATATGATTATTTACCTTGAAAACTCTAAGAACTCCTCCA
GCAAGCTCCTAGAACTGATAAATGAATTCAAGAAAGTTTCTGGATACAAGATTAATGTACACAAATCAGTAGCTCTTCT
ATATACCAACAGTGACCAAGGGGAGAATCAAATCAAGAACTCAACCCATTTTACAATAGCTGTAAAAAAAATAAAATAA
AATACTTAAGAATATACCTAACAAAGGAGTCGAGAGACTTCTACAAGGAAAACTACAAAACACTGCTGAAAGGAATCAT
AGACAATACAAACAAATGGAACACATCCCGTGATCATGGATGGGTAGAATCAATATTGTGAAAATGCCCATACTGCCA
AAAGCAACCTACAAATTCAACACAATCCCCATCAAAATAACACCATCATTCTTCACAGAATTAGAAAAAACAATTCTAA
AACTCAGATGGAACCAAAAAAGAGCCTGCATAGCCAAAGCAAGACCAAGCAAAAAGTACAAATCTGGAGGCATCACACT
ACCTGATTTCAAATTATACTATAAGGCCATAGTCACCAAAATGGCATGGTACTGGTATAAAAATAGACATATAGACCAA
TGGAACAGAATAGAGAACCCGGAGATAAACCCAAATACTTACAGCCAACTGATCTTCAACAAAGCAAACAAAAACATAA
AGTGGGGAAAAGGATAACCTTTTCAACAAATGGTGCTGAGATAATTGGCTAGCCACACATAGGAGAATGAAACTAGATC
CTATCTCTCACCGTATACAAAAATCAACTCAAGATGGATTAAGGGCTTAAACCTAAGACGTGAAACTATGAAATTTTAG
AAGATAACTTTGGAAAAACCCTTCTAGACATTGGCTTAGGCAAGGATTTCATGACCAAGAACCCAAAAGCAAATGCAAT
AAAAACAAAGATAAATAGCTGGGACCTCATTAAACTTTACGAGCTTTTGCAGGGCAAAAGGAACAGTCAGCAGAGTAAA

Fig. 6.28c

CAGACAACCCACAGAGTGGGAGAAAAATCTTCACAATCTATACCTCTGACAAAGGGTAGTATCCAGAATCTACAAGGAC
CCCAAACAAATCAGTAAGAAAAAAACAAACAATCCCATCAAAAAGTAGGCTAAGGGCATGAGTAGGCAATTCACAAAAG
AAGATATACAAATGGCAAGCAAACATATGAAAAAATGCTCAACATCACTAATGATCAAGGAAATGCAAATCAAAAACAC
AAAATGTGATACCACCGTACTTCTGCAAGAATGGCCATAATAAAAAAATTTTAAAAAACAGTAGATGTTGGCATGGAAG
GGGTGATCAGGAAACACTTCTACACTGCTGGTGGGAATGCAAACTAGTACAGCCATTATGGGAAACAGTGTGGGGATTC
CTTAAAGAACTAAAAGTAGAACTACCACTTGATCCAGCAGTCCCACTACTAGGTATCTACCCAGAGGAAAAGAAGTCAT
TATTTGAAAAAGACACTTGTACACGTATGTTTATAGCAGCACAATTCACAATTGCAAAACTGTGGAACTAACCCAAATG
TCCATCAGTCAATAAGTGGATAAAGAAACTGTGGTGTACAGATATATATACAATGAAATACTACACAGCTATGAAAAGG
AATGAATTAACAGCATTTGCAGTGACCTGGATGAGATTGGAGACTATTATTCTAAGTGAAGTAACTCAGGAATAGAAAA
GCAAACATCATATGTTCTCACTGATATGTGGGATCTAAGCTATGAGGACACAAAGATATAAGAATGATACAATGGACTT
TGGGGACTTGGGGGGAAGAGTGGGAGGGGGGTGAGGGATAAAAGATTACAAATATGGTGCAGTGTATACTGCTTGGGTG
ATGGGTGCACCAAAATCTCACAAATCACCACTAAAGAACTTACTTATATAACTAAATATACCACCTGTACCCTAATAAC
TTATGGAAAAAAATTTTATAAAAAGTAATAGATTTAAGTCAGAAGTTTATTGAAGCAAAGTAAAGTACATTCGGAAGGG
ACCAAGTGGAAAATTTAAAAGATTGAGTGCCCCGCTTGATCATTGGTTCAAGGCTTTTATAGAGTTACTGTATCCTGAT
TCTTCCTGATCTCCTCCCCTCATCCTTCTTGGGGGAACTGTTGGCTAATCCTTGCATGCGCAGTAACTTGCTAATATCT
GTCAGGGGCTGCATGTGCCGTTTGGTGGCTGAAGTTGTGTGTATGCTCTCCATGACAATTTTTCGTTACTGGTCTAGTG
CCCCCAAAGGAAGGTCACATATCAGGCAAACTCTGACGTTTTGCCCCTTCTTGAGCATGCCTGGACATATCCCCGAAGG
AAGGCCAAACTCCGCCATTTTGCCCCTTACTGCAGATGCCTGGTCATGTTTGCTTAGTTCCTGGGATCTTATGAGGAAG
TTGTTGCTCATAAGCTCAAGATGTTTCCTGTTTGGGAGGAAATTTTCCCCTTCTTGGTGCCAGCCATGACCATCTGTCA
TTCCCAAGGAGGCCCCTGACAATTGCATGACAGTCACCTGACTGTTGCCTGACATTCCTTGGGGCACTCTCCTACCCTG
CTCATATCTGCCTATCTGCCTAAGTAACATGAAGACATTTTAAACCTTCTCAGTGGTTCTCCCATTTCTTCTCTCTCTC
TCTCCCCCACTTTCCCTTCAAACCACCTCAAAACTCCTTTCTATTTCTACTCAGCAAAATGGAGATTAAAACCTCACTA
AAATGTGTCTTTGCCCACCCCTGCCTTCCCATTTCACAGCGCACTTCTTTCTTCAAACAGATTTAGATTTACAGAGGAA
AAAAGGCAGAAATTCTCTTTACCGGCTTCAGACACTTAAAGAAAATCTGTCCTTTTCATCTCTACACGTTAAAATATTT
GCTATAATAAGTGTAGATTCAAGAGCCATTTGGACATATCTGGCTTTTAAATAGTGTTGACTAATGACCAACTTAACTT
AGATCTTTGAATCTATGTGTGGTGTTATGATATATATTAGTTTTCATCTGAGGTCTAGCTCATAACTCCCACAGCCCTT
GTTACAGTCTTTTGTTATAATGTTGGGTGTGTTAGGCCTCAGGGGCAGGCCCCTGACCTTCTCCTTCTCTCCTTTCACC
TGTTCCTGCCTTTCTGATTGTGGCTTTTAAGACCTTCCCCAGAGAGAGTACTGCCCTATACCCTGGGGGAAGGAATGCT
GATGTCATGAAGCCTCCATAAAATCCCAGAAGGACAGGGTTCAGTGAGCTTCCACATAGCTGAACACTTGGACTTTCAT
GGAGGTTGGCACAGCCAGGTAAGGCATGGAAGCTCCACACCCCTTCCCCCATACCTCACCCTATATGCATCTCTTAATC
GGTAACATTTGCAATATCCTTTATAATAAACTAGCAAACATAAGTAAGTGTTCCCCTGGGTTCTGTGAGCCACTCCAGC
AAATTAATTGAACCCAAAGAGAGGATTATGAGTATGCCAACTTGGAGGTGGCCGGTTAGAAGCTCCAGAGGCCCACACT
TGTGACTGGTGTGGTGGGGGGCAGTCTTGGGAACTGAACCTTCAACCGGTGGGATCTGACATTATCTCCAGGTAGACAG
CGTTGGAACTGAATTACAGGACACCCAGCTAGTGTTGGCTGCTTGGTGTGGGGGGGAAACCTCACATGTTTGTTCGTAG
AAGGCTTCATCTGTGTTGATGATTTTTGTGGTGTGAGAGTAGAGGAAAAATGCCATCAGGGAGAGTTTTCTCTACACCC
TATAGCTCCTAGATGCTTTTTATTTAAGACATTCAAACCTTGTGAAAAACAAACAAACACAAAAATCTTTTTATTTAAG
ACGGTCAAACCTTGTTCAAAACAGCACAGACATTAACTCGGAATTTAGGATTTATTATTGATTAATTGACATTATCTTC
AGTCTGTTCATATTATTAAGTGATATAAGTCAGGTACACACACACATGTATGGGGAGTGTGTGGGAGTGTCTGCATGAA
GTATACTGTCAGAAAATATACTCATTTCAAAGAAACACTGATTTAGGCCCTGGCAAATAAGGAAACATTTCTATTTCTT
CTAGAAATAACACATTCATTTGCCAACATCTGATCTATCCATATGACCTCTTAATACACACATGAAATAATAAAGTGTA
TTTTTCATTCATTTAATAAGCATGTGATTCACGTGACACTGTAAGCCTTTTTTTTTTTTTTTTTTTTTTTTTTGAGACA
GACCCTTTTTCTGTCGCCCAGGCTGGAGTGCAGTGGTGTGATCTCTGCTCACTGCAACCTCCACCTCCTGAGTTCAAGC
GATTCTCCTGCCTCAGCCTCCCAAGTAGCCGGGACTACAGGCACGGGACACCACGCCTGGCTAATTTTTTTGTATTTTT
TGTAGAGACAGGGTTTCGCCATGTTGGCCAGACTGGTCTGAAACTCCTGACCTCAGGTGATCTGCCCACCTCGGCCTCC
CAAAGTGCTGGGATTAAAGGCGTGAGCCACTGCGCCTGGGCGAGCATTTTTTTTTATTCCAGTGTTTCTCGTTAATCTA
CCCCATGGCGTTTTATTTCAGGTTGTATGTATGCCAGAGATGAAAAAAGGCAAATGACAGAAGAGCAAGTATATGGAGA
AAGATAGGAGGGACTTGAGAAAACTTGGCAATTTACTAAAATGAAATGGCATTGTTTCCATATTTACCAAAAACAGACA
AACAAACCTAATCATTCCTCTCATTTTGATCAGCTTTCATGTATATTTTCTAGGCCTAATCAAAATCTTCTTTGGTGTC
ACAAAATAATGGAAGAGACATGTATTGGTTTAGGCTCCTGCAGCAGTAGACCCCAATATAAGGAATATTAGTTGTTTAT
TTAGGAAATTCAAGAAACCTAAGTAAAGGAGTAGGGAAGTGAGACAGGAAATGGAAGGATCTCTGAAAAAATACACATC
ATCAAGTCCGTTCCCACAGAGGGAAACAGGAGCTCAGTCCCCATTGTTGGGTTCTGGAAGACAGTGTGGAACAGACCCC
AGAGTTATCCCAACTGTGAGATGAGGAAGCTGGGGTGCTTTTCACCAACTCTTCATCCATCACCTGCTTCCGGGGGTCA
TTAACAATCCACCACTCCCAGGTTATTTATGCTCAGGCCAGGCATGTAACTGCAGCCAGAAAATAGCCCTTGCCAAGAC
TCACAGGAATTAAAAACCTTCAGGCAAGGAGCTACTGGTCTTTGTAATAATAAGCTTTGAGAGGCGGGTATTCAGAGGC
TATGGGCACCAATAACTTCCCTTATGTGAGTCATAAACACAAAGTTAATTTGTTTGCATGTGTATACAAGTATTTTGA
ATGAATGCTTCTCTTTGTTTTGTGTGTTTGGAAAATTTAAACAAAATTATTATTGTTTTTGTATTGGTATTTAAACATC
TGAATATGTAACATCAAAGATGATATTAAAAAGTATAAAGCAAATTATCACAAAATCAGATGTGCAGTTACATGTTTAC
TTGAAATTCTCTCTAGACTACATTTGAAATAGGAGCTTCCATAGGGGGAAATTTAAATTTTTTTACAAGTTGTTTAAT
TATAATGTGCTTTAAAAACACTTTAGCATATCATAAACCTTCAAAACAAAATGAGTAATCATCTTCTGAGATCCATAGA
AAATGTTTCTTAAATGTCACTTTCAATTACCACTTCTGGAGCTAACTTGCAAAACAATTGTGTTTCCACCAACTGAAAT

Fig. 6.287

ATGTTTTCACCAAATTTAAGATAATCTGTGGTCAGTGTGAGCTTTGTCTTGATTTAGGAGGAGGAAAGCAAAGTTCCAT
TTATGAATACTTTGAAAATTTTCAGAAATTCTCCTAAATTGTTTCAGCAACCAGGCCAAAAGAGAGGCCTGGAATCCCA
AGGTGAGAGGAAACTTTAAAAGTTACACTTATGGCCAGGCACGGTGGCTCACACCGTAATTCCAGCACTTTGGGAGACT
GAAATGGGTGGATCACTTGAGGCCAGGAGTTCAGGACCAGCCTGGTCAACATGGTGAAACCCCATCTCTACTAAAAATA
CAAAAATTAGCCTGGTGTGGTGGTGCATACCTGTAATCCCAGCCACTTGGCAGGCTGAGACATGAGAATCACTTGCACC
CAGGAGACAGAGGCTGCAGTGAGTGAGATCATCCCACTGCACTCCAACCTAGACAACAGAGTGACACTCTGTCTCAAAA
AAAAAAAAAAAAAAAAAGTTTCACTTGTGCCTTGGGGTTGGCTGCCTGCTATCATATTTTTGTTGTGTTCTTCTACCCC
AAGCTCCAGTACCTCCCCTCACAGAAATCACCTCTCCTACCAACCCCAAGGGAACCCATTCCATTTTTATTAGAGAGTT
CTTCTTTACATGGCCTCAAGTCTTTTCATCAAGATTTACTGATAGAATAACAGTAAATCCACATTACTCCAGGTGTCTC
TTTGCCCTTACCTAGCCTTTGTGTCTATGCCATTCTTCTCAAGGAAATTGCCTTCCTTTATCAGCTTTAAAAGTCCATA
TTTGGGATCCCCTCTCCTGGAAACATTCTCTGACTATCCAGCCCAGATAATTTTTTTCTCTGCTTTCTCATTATAACA
TTCATGATCTGTGTCATTCATTCATTCATTCATTTGCCCAATATTTCTTGAGTGCTTCCTAAGTTCAGGCACTGTTCTA
GGTACTGGGGACATAGGAGGATAGAAGCCAGTCAAATTTTGCACTCACTGAAACTTTACTTTAGTAGGTAAGAATCTAT
AGTTTAAAAAAAAATTCACATATGAGGCCTGTGAAGCAAATAAAGCAATAATGTGGTGGTTTTCATGGACATTATGTCT
TTCACTACCCGTCCCTCTTTTTGTTGTAAACTCTCTAAGGCAAGTATAACCTCATCTATACATTAGTATTTATTTACCA
CAAGGACCCATAAGTATTTATTGATATATCTTCCTAAGTATGTGATAATATTCTAAATAGATAGTAGATTTAATCATTG
GGATTTATGTGAAGTTGGATTAAATAGATAACATGATAATTACATTTAGTATTGCATGGAAGGACACATTTTCTCACTT
ATAGAAGCCTAAACAAATGTCACAATGTTGATAGATTCCTTTATAGGATGTTAACTCTGAAGCTGTCGTGAAAATGTGT
GAACTAGTTTCACTTTCAACTTGATCCTTTTGGAATCATGACAGATTTTGCTAGCCCTTAATTCTTCTGCAATCTTTGT
TGATCCCTCCTATTTCAATCTCATAAGACACTTATCTCTCCTCCAGAAAGATCTGAAGGGTTAAGTCACCTATTTATAC
CTAATTACAGTGAGCCCTGTGTTGGATTTTTAAGGGATAAAAGGAAGTATCAGATCTCAGTTAACTTATGTACTGTCTA
CAGTGCCTAACAATGACACAGGATGACTCAGTTAAGGAGAAAAATACTCCATTTATCAGCACAGAATTCTTCCCTTTAA
GCTATCATATGGTAGCTAACCTTGCCTAACCTTGCGAGTTTAACCTTGCTTTTTACGTGCATGCACGCGTGTGTGTGTG
TGTGTGTGTGTGTGTTACTAATTTCTAACTGTACCAGCTCCTGAATTAATATTTGGCAACATCAATATTCCTTGTATAA
TGAAGAAGCATGGTCCAAGAGACTTGGATGTGACCTCTCTAAACATCAACTTACAGCTGCAAAATAAGGAATAAGTTGT
AATTATTCCTTATTTGTAACAACTACCTTACAGTGTTGTTTTGAAGATTAGAAGAGAATATATAGATGAAGTACCCAGT
GGACAGTAGGTATTGAATAAATGTTAGTTTCCTTCCACCTTCTCTGGCTTATGTAACAAAATTACTCATTCTACTAGTC
ACTCAGACTTTAGTTAATCATTAGCTAAAGAGTAACAATGCAGGATTTTTTTTTAATAAATTGGCTAGGATTGGTTTT
ATGCCTGGATGGAATAGGCACTTGCCATTTCATCACAATTCAAAATTCCTCCTGAAGGCCTGAAGGCCTGAAATGTTTA
CCATTGGAAACTAATCCCACTGTATGGTTACTATTATTTATTATATCTATTAACTTATAAAATATTAAAATATAAAGTA
AATATTACCCTACTGATGCATTAGCCACTCAACATAAATGAGTTTCTTGGAGATTAATAAAGCAGTACATCAGTATGTC
CCAAACAATGGCTAAAAGGAAACCTAGTAACCACCCCGACCCCAAACTTGTTTTGTTAGGCCAGTCAGATTTTTTTTT
TCATTTTGAATTAGCATCACGATTGAAAGTGGAAAGATCTCACATATAACTTCACATTTCTCTGTACAATTGAGAAACG
TTGGCTATGTTGGCTCTCTGAATAGCAGCTACCTCCTTTCAAGGTTTGTATTTACAATATTTCCCACCCCCATGAGTCC
TTATTATCCTGACACTGAGGACAAATATGAGTTGCTGTCCATCAGCATTCCAAAGCTGTTTTTTTTTTTGTTTTTTTTT
TCTTACACTTAGCCTACTTCACTCCCTAACACCACCAGCCTGATTTCTGAGGGGGCCTGAGGTAGGAGGAGGAGAATGG
AGAGCACTTTCTCTGAGAGCCGCCATTTTAACAGATCATTAAAGACACGATATTCACATGACGGTTGCTTACTCTCTGA
TGAAAACTACAAAAACAGAATACACAGGGAAGGTAATCTGAAGGTGATACCTTTTTCCTATGATCCTTGGCCTTATAAC
CACTAATCAAGCCTGAGGGCCGAAGTTCCTGCCTCATCTCTGCCTGATGTTACGAACTAGGCAGGCTAGCAGAGGCAAC
AGGCAACCTGGGCACCTGAAGAGCTACCTGGATAACCTAGAAGAACAGTAGGAGGTTAAAGATGAGGACAAGTCTATCA
AAACAAAAGCCTGTCAAGACCAGAAAGAGAAAGTCACACTTTTGACTTTACAGTTTGTGCTGGGCTGACACAAAGGCCT
CAGTTAACACCAAATACAACTTCCATAGACTTCAAGTTTCCCTCATATTTTTCCTGGGTCACTATTCCAGAGTTGAGAA
ACTGAACTACATCTAATATTTTATTAAAATAAAATTGAAGATTATTAGAAAAGTTTATTAGTCAATAGTAAAACGTTAT
TTGGTTAGCTTTCTTAAACAATGGCATTTATAGATATCTGATTATCCCAACAAAAATCTTCAAATGGTTCATGGACGCT
TTGTCAAGCTTTTGTGCCACCTGAGAGAAAAAAAGATAAATGGGGAGGTATAATGTTAATTTTGTAGCCTTTGCTTAAT
GTTTATTTTTGAAATGCCTATCATTTTCTATCAGTATCTGAAACTCCATGGATTTCTATTAGCCTTCACCAATAATTAC
ATTTGAAAGCATCCAGAAGAGACAATCCTTACCACAGTCTCTTTTAAACTCTTAATGGCTGTCACAAAATTCTATTTTT
CATTTTCTCTAAGAGCATTCTATTAAACTGTTCCTAGTTATTAGCTTTCATAAAGGCACACAGAAAATGTTTCCTCTAC
AGCCACAAATATTCCTAAAGCAGAATCATAGTAAAACAGCTGTGATAATGTTTTATTCATTCCAGAATCCTAATGATTG
AACAAAAGAGAGACAGTCTTAAGAGTTAACATCTATTGAGTCCGTGACTGCGTGCATTGTTCTTTCAAGTATTTTACCT
GCACTATTTAATGTAATTCTCCCAGCCACTCTGATTTCACTCATTTTACAATTGAGGAGACTGAGGCATAGAAAACTAA
AGCAATTTGGCTGGAGTAAGGGCCAGGTTGGGACTTATACCTTGGCGGTCTGCCTACAAGGTGTTCCTCACCACCATCT
GACACTGCTTTCTCTGTGTAGCCCAGAGTGTCAGCCTCAGTGCTTCAACTTGAGCTTTCAGGATCTATTTAAAGATGGA
AAATATAGTTACATTATGTCACCATTTGAGATGCAGAAAGACAGGGCCACCATTTTGCACAATTCTGAAAGCACAATTC
ATGCTGTGGTTTGTAAAAATGGTACTCCCTAGAGTTGGGCAATGGACAGCTCACACAGAGATGCAGTGGCCCTGCTAAA
CTAATGCCTTACATAAAAGAGTTTTACTCTTCATTCCCTTAAATGATTCTTAGTAACACTGGCTGACACACACACAAAA
CAGTTTCTAAGTAGGTCTGTCCGCATACTATGATCACTGGTCAACATTAAGTTTCCACAATTAATTTTACATAATCCAA
AGACTGCCAAGCAGTTTATCTGGGTAAACTAAACATTCTGTAGTCATTTATTCTGCTTCCAGTCATGCCCAGCAACAGG
TTGAGAAGACAAATGTTCTCAGAAATGATCTCCAAGGAGTTGGGAGCAGGCTGCTTATACGTCTAATTCACCAGAATAG
GTGAGCGTGGTCGTGGTGACCTTTTCATACTGTTGCAGAGCTGAGTATGAAGAGATGACTCACAGTCCTCCAATGCAAC

Fig. 6.282

ACAGGTGACCCTGCAGCCAGATTTTGCCTTCAGTGGTATGTGACTCCCATGGGGTCAGGAGAGTATCTCAGACATTGAA
ATTTGACCTAATGGCCTACCTACCTGCACACGCACCCTGCCCACTTACAGAAGGGCAAGAACTCTGCATTACTGAGGCC
TTGTTATTATTATAGTTCCTATTTAGGTAAGAACGCAATGGAGAAAAAATGCATTTGGTTATTGGGCCTCTGTTTGAAT
ATCCTGTGCTTTTTGCCAAACAATGCATTCTACATAATCTTAAAAAACAAAGTCCATTTCAAAGAACAAAAATAATGAC
CATATCCACTGAGCAATTGAGCAGAATGGGAATCGGAGTTTTAAACTCTGATATATCTGTTTTCCTTAGGGCTGAAATC
TTCTTTTCATGGTTCTAGTTTCTCTAATTGAAATAAGAACCTAACCCTGTTCAAAACTACATCTCTGGGAATGAGTGAA
AAATTAATGATCCTCCTATTTTGTTGGATCATAATAATGACTCTCATCCTGGTGGGGCCACCAGCAATGCTATTCTTCT
CAGACTCTATCTTAGTTCCTAAGCCACTCACCAGGTATTTAAAAGAATGATTTAACACAACTAGAATCATTTAAATAAC
TGTATTTTTTAAGAAAGCCATATTATTGCTTTAGTTTGGTCATTCATATATCCAAACCTTGGACTCATCATCTTGCAAT
CTCATGTGTTCAGTTATTCCAGAGAAAACATTAAGGAGAATTGTATTCTTCTTCCCAGCTAAATTTTAGGTCCTCAAAG
CTGGCAACCACAATTTATGCTTTCTAAAAATCATCTATGATACTAAGTATGAGCTGGATCATGAATAAAACCCTTGTAA
CAATAAATGCTTGATGACTTACTTCATCTCATTAGCAAGGGAAGGTAACTCATAATTATCAAGGTACTACAGGAAATAG
GGCACTATCTGGAAATGCTAAATACATCTCCTTGCATGAATCACTTCTTACCAGAATTCCCTTTCTTTCCAGATCCCAC
CTCCAGGGTTCTGTGGTCCATACCAGGCACTACATTCCTCAGGGGCTACAGCCTATGAGCGTCTCATGGGGCTATGAAA
CCATTTGAGACCTGGAAAATGAAGTAATTGAATACAAACAGAAAACTGCAAAATGAGGACTAACATTTAATTAAATGTT
CAAAGCATAAGATTATGTCGACTTCAATAATTGTCAAATGAGTATTCTTAACATTTTACTAAATTAAAAAAACTTATGT
GCTGAGTTTTTATTTTACAAGTATCTCCAAGTATGCTGGATGATTGCAAAGAAAATCAAGGCCAGTCATTGGTTAAAT
GAGTTTAATAGTAGCCACATAATTTCAAAAGCAAAATTATAAAGACCCTTCCCAGACTGTTGATAGCAAAAATAATCTA
CGTTGTGGAAAGTGGGTCCATGTTAATATGTTAGATATAAGTAGTGAGGCCTAAAAAGGTATTAAAACATCTTTGCTTA
AGGTACTACCTATTTGCAAGATTGTTATTTTAAAAATAGCTTATGTTTTAAATTGTTATTGCTTTTTATCACTCTAATA
AGAATTTATAGTTGCTGTAAGATAACAAGAAAAAGGTTAACTATCTGCAGAGATGCCTGAGAGTCAGCCAGGGAGTAAC
TTAAATCCTGCAGGAATCTGACTCACTGAAGACTGTCAACTGAATGAAGGCTTAAATTTCATGGTCTTGGGTGGGAGAA
CTTTTTCATATTCTTTCCCCATATGGAATAACAATCTGCCCTGAAAACAGGGAGTATTTTGGCATGATCTCTTTTTGCT
TATTTGCCTTCCATTTTCCATAAAGCAACTTTTGCCAAGCACCATACTTAAGACTCAACTTTTTTGCAAAAATATCAGA
CAAAGCACTGTCTTTAAGAACACAGAGAACACACTAGATCCCTTCTTCTGAAAATCACTGTTCTATGTTGTTTGTGGAT
ATTTTTTTAGCATTCACTGCATGCCTGGAATGAATAGGCTGTGTTTCTCCCCAAAAGAGCACAAATTAATATACAAGGT
CAGGTTAAATAGTTAAGTCTGCTTTCCTATCCCTTATACAGAAGCTATCCATTCAAAAAAAAAAAAAAAAAACTTCTTT
TTACTTTTTTTAATTTTTAATTTTGGTGCATACATAGTAGGTGTATATATTTGTGGAATACATACAAACATACAATGCA
TAATAATCACATCATGGTAAATGGGTATGCATCACCTCAAGCATTTATCCTTTTTTTATGTTACAAACAATCCAATTTT
ACCCTATAATTGCTTAAAAAACATACAATAAATTGTTAACTATAGTCACCCTGTTGTACTATCAAATATTAGCTCTTAT
TGATTCTATCTAATTACATTTTTTTATACCCGCTAAGTATCCCACCCTTCCCTCCACGCTACCCTACCTAACCTCCGGA
AACTGTCTTCTGCTCTCTATCTCCTTCGTTTGTTTTAATTTTTAGCTCCCACAAAAAGGGAGAACATGTGAAGTTTGTG
TTTCTGTGAGTAACTTATTTCACCTAACATAATTATCTCCACTTCCATCCGTATTGTTGCAGATGACAGGACCTCATTC
TTTTTTATGGCTAAATAGTACTACATTATATATATGCACCATATTTTCTTTATCTATTTGCCTGTTGATAGAAATTTAG
ATTGCTTCCAAATCCTGGCTATTGTTAATAGTGCTGCAATAAACATGGGAGTATAGATAACTCTTTGATATTTTGACTT
TCTTTCTTTTGGGTATGTACTTAGCAGTGGGATTGCTAGATCATATGGTAGCTCTATTTTTAGTCTTTTGAGGAGTCTT
CAAACTGTTCTCCATAGTGGTTGTACTAATTTACATTCCCATCAAAAGTGTACCAGGGTTCCCTTTTCTTTACATCCTC
ACCAGCATTTCTTATTATTTGTCTTTTGCATAAAAGCCATTTTAGCTGGAGTGAGATGACATCTCACAATAGTTTTGAT
TTGCATTTCTCTGACGATCAATGATGTTGAGCACCTTTTCATATACTTGTTTACCATTTTTATGTCTTCTTTTGAGAAA
TGTGTGTTCAGATGTTTTGCCTATTTTTAAATCAGATTAATTTTTTCCTGTAGAGTTGTTTGAGCTTCTTATATATTCT
GATTATTAATCCCTTGTCAGATGGATAGTTTGCAAATATTTCCTCCCATTATGTGGGTTGTCTCTTCACTTTGTCAATT
GTTCCTTTGCTGTGCAGAAGCTTTTTAATTTGATGTGATCCTATTTGTCCCATTTGTCCATTTTTGCTTTGGTTGCCTA
TGCTTGTAGGGTATTACTTAAGAAATTGTTACCCAGTCCAATGTTCTAGAGACTTTCTTCAATGTTTTCTTTTAGTAGT
TTCATAGTTCAGAGTCTTAGACTTAAGTCTTTCATCCATTTTGACTTGATTTTTGTATATGGCAAAAGATAGAAGTCTA
GTTTCCTTCTTCTGCATGTGGATATCCAGTTTTCCCAGCACCATTTATTAAGGAGACTGTCTTTTCCCAAAGTATATAC
TTGGCGCCTTTGTTGAAAATGAGTTCGCTGTAGATGTATGGATTCATTTCTGGGTTCAAAACTGGTATTCCAGTTTTGT
TCTTTTTGCTCGGGATACCTTTGGCTATTTTGAGTCTTTTATAGTTTCATATAAATTTTAGGATTTTTTTTCTATTTCT
GGGAAGAATGTCCTTGGTATTTTTATAGGGACTACATTGAATCTGTAGATTGCTTTGGGTAGTATGAACGTTTTAACAA
TATTGATCCTTCCAATTCATGAATGTGGAATATCTTTCCATTTTTTTGTGTTCTCTTTTTTTCCATTAGTATTTGATAG
TTGATAGATCATTGTAGACTTTTTTGGTTTAGTTAACCCTAGGTACTTAATTTTATTTGTACCTATTGCAAATGGGATT
ACTTTCTCCATTTCTTTTTCAGATTGTTCACTGTTGGCATGTAGAAATGCTACTAATTTTTGTATGTTTGTTTTGTATC
CTACAACTTTGCTGAATTTATTTATCAGTTCTAATAGTGTTTTGGTGGAATCTTCAGGTTTTTCCAAATTTAAGATCAT
ATTTTCTGCAAATGGGATAATTTGCCTTCTTCCTTTCAAATTTCTTTCTTTGGTCTGATTGTTCTAGCAAGGACTTCCA
GTATTATTAATATATTGAATACTAGTGGTGAAAGTGGGCATCCTTATCTTGTCCCACCTCTTGGAAGAAGAGTCTTCAG
TTATACCCTATTCAGTATGATACCAGCTGTGAGTCTGTTATATATGACTTTTATTGTGTTGAGGTATTTCCTTTTATAC
CCGATTTTTTGAGGATTTTTATCATGAAGGGATGTTGAATTTTATCAAATGCTTATTCAGCATCTGTTGAAATGGTCAT
ATGGTTTTTGTCCTTCCTGTCTTCCTTTTAGTAAAAGTGATTTTCTCTGGTGGCGTGTTTTAATTTTTTGCTTTTTATT
TTTTGAGAACCTGTTGTATATTTTTTGATTTGCGATTACCAGGAGGCTTGTAAATAATATATTGTAACTCATTATTTTA
AACTGATAACAACTTAACACTGATTGCATAAACAAACTAACAAGCAAAGGGAAAACCAATAAAAACTCTACATTTTAAC
TTTGTCCCCCGCTTTAAAACTTTCTGTTGTCTTTATATCTTATTGTATTGTCTGTATTTCAAAAAATAGTTGTAGTTAT

Fig. 6.283

TATTTTTGATCAGTTTATCTTTTATTCTTTCTATTTA.GATATGAGTTGTTTACATACTATAATAACAGTGTTATAATA
TTCTGTGTTTTTCTGTGTATTTACTAATGCTAGTGAGCTTTGTTCCTCCAGATGATTTCTTATTGCTCATTAATATGCT
TTTCTTTCAGATTGAAGAGAATTCTTTAGCATTTCTTACAGGATAGGTCTGGTGTTGATGACATCCCTCAGCTTTTGTT
TGTTTGGGAAAGTCTTGATTTCTCCATGTTTGGAGAATATTTTTACAGGATATACTAGCCTGAGATAAAAGTTTTTTTC
CCTTTAGCACTGTGAATATGTCTCCTGCCCTATAAGGTTTCCACTGAGAAGTCTGCTGCCAGATATATTGGAACTCCAG
TGTATGTTTTTTCTTTATTTTTTCTTGCCGCTTTTCAGATTCTTTCTTATCTTTGACCTTTGTGAGTTTGAGTATTGAA
TGCCTTGAGCTAGTCTTCTTTGGGTTATATCTGCTTGGTGTTCTATAACCTTATTATACTTGAATATTGTTATATTTCT
CTAGGTTTAGGAAGGTCTCTGTTATTTTCCCTTTGAATAAATTTTCTACCCCCATCTCTCTTTCTAACTTTTTTTTAAG
GTCAATAACTCTTAGATTTGCCCTTTTGAGACTATTTTCTAAGTCTTCTAGGAATGCCTCTTTCTTTTTTATTATTTTT
TCTTTTGTCTTCTCTTTGTATTTTCAAGTAGGCTGTCTTCAAGCTCACAGTTCTTTCTTCTGCTTGATTGTTTTGTGCT
GTTAAGAGACTCTGAGACATTTTTCAGTATGTCAGTTGCGTGTTTTAACTCCAGAATTTCCGCTTGATTCTTTTAAATT
ATTTTAATCTCTTTGTTGAATTTATCTGATAGGATTCTGAATTCCTTCTGTGTGTTATCTTGAATTCCATTGAGTTTCC
TCTGTCTAAAAGGTCACATATCTCTGTCTCTCCAGGACTGGTCACTGATGCCTTATTTAGTTTGTTTGGTGATGTCATG
TTTTCCTGGATAGGCTTTATGCTTGTGGATGTTCGTTGTTGTCTGGGCATTGAAGAGTTGGGTATTTATTGTAGCCTTG
CAGTCTGGGCTTGTTTGTACCTGTCCTTCTTGGTGAGGCTTTCCAGATGCTTGAAGAAACTTGGGTGTTGTGGTCTGAG
TTTTGGGTCACTGCAGGAATATCTGCATTAGGGAGCACTCCAAGCCCAGTAACACTGTGGCTCTTGCAGAGGTACCACC
TTAGTAGTCTTGGATAATATCCAGAGTCATTCTCTGGATTACCAGGCAGAGACTCTTTTTTCTCTTCTCTTACTTTCTC
CCAAACAAACAGATTCAGTCTCAGTCTGTCTGTCTGTCTGTCTGTCTCTCTCTCTCTCTCTCTGTGTGTGTCTCTGTTT
CCTGGATCTGGGGGAGGGGTAACACAAATACCCCTGTGGCCACCACCACTGGGACTGCATAGGGTCAGACCTGAAGCCA
GCATAGCACTGGGTCTTGCCCAAAGCCTGCAGTAACCACTGCTTGGCTCCTGCCTATGTTTGCTCAAGGCACTAGGGCT
CTATAATCAGCAGGTGGTAAAGCCAGCCAGGCTTGTATCCTTCCCTTCAAGACAACTAGTTCCTCCTAGTCCTGGGCAG
GTCTAGAGATGACGTCCAGGAGCCAGGGCCTGGAGTCAGAAATCTTAGGAATCTACCGGTACTCTATTCTACGGTGGGT
GAGCTGGCACCCAAGTCACAAGACAAAGTCCTTCCCACTCTTCCTTCTCCTTTCCACAAGCAGAGGAGTCTCTCCCTGT
GGCCACCACTGCCCCAGGCCTGCGACAAGTACTGTCTGGCTACTGCTGATGTTCATTCAAGGCCCAGGGGCTCTTCAAT
CAGCTTGTGGTGAATGCTGCCAGGCCTAGGAATCTATTTGGGGCAGTGGGCCCACCTGTAAGCCAGGGAAGGTCCAGA
AATACCATCTAAAGCCAAGCCCTGGAATCAGGAACCCCTAGAACCCCTTTGGTGCTTTACCCTGCTGTGGCTAAGCTGG
TACCTAAGCTGATTTTTGGTTCTTATGAAGGTGCATGAAGGTGCTTTTTTGTGTGGAGAGTTGTTCAATTTGTTGTTCC
TTTGGGAGGCTGCTATTTAGCCATATGGCTCCACCTCCCTCTCCATCCAAAAAGAAAACTTTAAATGAAAATATACATC
CAAAGAAAGTGTTTTTGAAATAAAAAATAAATGGTCTTAATTCCAAGGAAAGAACCAACATAGTAAAGTAAAAATGCAT
TTTTTCCAAAAGTTACTTGTTTGATCACATATTGTATTTTATTTTAATGAAATATCTAGAATAGGTAAGTCCATAGAGA
ATACAAAACAGGTTAGTAGTTGCCAGGGAATGTGAGTGTGCAGAATGAGGAGTCATTGCTTAATGGCACTGTTTTCAAG
AGTTACTTTTGAGTACACTTGCAGTCTGGTATCTAAATAATTGAAATATTTGAAAGTCGTGATTCCTAGAATAAAAACA
GTGACTAACTTTTAATGATTTCAATGTCATGTGCACAAAAAAACCATGTCCAGAGTAATAAGTTTACCCATTCTACCAT
TCTTTTCAAAGAATTGCTTAAATAAGTTTTAAAAAATTTCCTATTGAGATGTTACTTAAAATACGATTTGTTTAGTTCT
CAAGGTTATGCTTTCCCCAGGTTATGCTTCATTTGGGTAATCTAAGTTTAAGTCCTAATGTAAGACCTAGGGCATGGTA
CTTAACTTCCTGTAGACCTCAGTTTTCTTGACTGTGTGGTGGAAGAAATAATAGTACCTAGCTTGTGAGTTTGTTTTAA
ATGTTAAATGAGAGAACATGTGGAACATCTTACCCAGTGCCTGGCACATGGTGAGCAATCAATAAATGGGAGTTCATCC
TGTCATCTTCAGATTTCTCTTCTGGAGCCAGCCAGGCTTGAGTTCTGACCTGGTTCATCCACTGAACTTGTAGGGGAAG
CACTTAGTGCCCTTCGGTCCTCTCATCCAGTACATGGATATACAGTCTTCATGTGGTTGATACAAATACGAATGTGCTA
ATGCATCTTTACCAAAAAGAGAGGTAAAAGAAAGGAAGGATAATCCTGCCAGAGATACATATGCAAAGATCTGAAAGTA
ATCGAGAGTGAGGGGTTGCAGATTGGACAACACTTAGTAGTGGCTCCAGATAAGGTTCTTAAAGACTGGCCAGGATGCA
GCCTTTTCATCCAGAGAAACAGCCATCTCATTCATAGACAGTGGTGACTGATTGGCAGATTTTATAAGATGACACAAAC
ACCCTCCCCATTGTCCTGCCAAAATGTGGGGAAACTCTTCCTGGAAAAGTTATTTCTTTGAATTGAGCTTCCAAAAGGT
TCCTATTAGAATTCAAATACTCTGTCTGGGTTGAATATCACATTGCATAATAGTTTCTCCAGATTAAGGCCATTTTTCC
TAAATATTTAACAAAAAATTTTTCGCTTCTTATCAATGATGCTGGCGTTGGTTCAGTGCCTGCATAAGACTTCTTCCAG
TGTATTTCTTTACCCTGGCAACCAGTTCCTTTTTCTTTGGGAGAATTTTTTTTTTAATTATAACACTATTGTAGGAACT
CCTTTTTGGCACAGAAGGCATCTAAAGTAACTTTTAGAGATAGAGGCTTATGAAAAACAAGAAAGAGGCAAGACTCAGT
TTTTGAAATCTAATTCCAGCCATGAAGCAAATGCCACAAAAGGGCACAGGAAGAAAATCTGTAAAGGGCTTATCTACCA
CCGTTGACCAAAGATTTATTCTGCTGTTAAGCAAATACCTTGTAAGCCAGATATTGTGCTAGGTATTCTGAATACAAAG
ATGCAGAAGCCTCATTCCCTGTTTTCTTTTTTTTTTTTTTTTATTATACTTTAAGTTTTAGGGTACATGTGCACATTGTG
CAGGTTAGTTACATATGTATACATGTGCCATGCTGGTGCACTGCACCCACTAACGCGTCATCTAGCATTAGGTATATCT
CCCAATGCTATCCCTCCCCCCTCCCCCCACCCCACCACAGTCCCCAGAGTGTGATATTCCCCTTCCTGTGTCCATGTGA
TCTCATTGTTCAATTCCCACCTATGAGTGAGAATATGCGGTGTTTGGTTTTTTGTTCTTGCGATAGTTTACTGAGAATG
ATGGTTTCCAATTTCATCCATGTCCCTACAAAGGACATGAACTCATCATTTTTTATGGCTGCATAGTATTCCATGGTGT
ATATGTGCCACATTTTCTTAATCCAGTCTATCATTGTTGGACATTTGGGTTGGTTCCAAGTCTTTGCTATTGTGAATAA
TGCCGCAATAAACATACATGTGCATGTGTCTTTATAGCAGCATGATTTATAGTCATTTGGGTATATACCCAGTAATGGG
ATGGCTGGGTCAAATGGTATTTCTAGTTCTAGATCCCTGAGGAATCGCCACACTGACTTCCACAATGGTTGAACTAGTT
TACAGTCCCACCAACAGTGTAAAAGTGTTCCTATTTCTCCACATCCTCTCCAGCACCTGTTGTTTCCTGACTTTTTAAT
GATTGCCATTCTAACTGGTGTGAGATGATATCTCATAGTGGTTTTGATTTGCATTTCTCTGATGAACAGACACTTCTCA
AAAGAAGACATTTATGCAGCCAAAAAACACATGAAAAAATGCTCATCATCATTCCCTGTTTTCAAAGAAACTCACAGCA

Fig. 6.285

TTATGGAGGCCCAGGTTTCTATTTGGGCCTCCATAATGCCTTGTGCTCTACCAAGAATGGTAAAACAATCCTTTCCAGT
AGGAGTTCCTAGTTAGTGGCTTATAGTTAACCAAATGAAGAGAGGATGACCATATGGTGCTGATAAATTGAAAGAAATT
AGGATGAACATCTAGAGATTTGCATGGCCAGACACCTAATTCAGATTGCAGAGCAGCAGGATGGGAGGCGTAGTCCTGA
TTTAACTCTTGATCAAAAAGAGGGGTAAAGAAAAGAAAGATAATCCTGCCAGAAATGCGTGTGCAAAGATCTGAAAGT
GATCAAGAGCAAGGGATTGCAGATTGGACAGCATGTTTTCTCATTTAATCCCAGAGGAACCCTGGGAGGATTCTAGGTG
TGCATATTGTCCTTATTTTGTAGAAGAAGGTACTGAATCTTAAAGAGATAATGTGTTTTCAAAGCTTACAGAGTCCAAA
TCGATAGCTAAACAGTGTCTGTGGGATTTGAATCCCCCTGTGATGTTCACTGTGTGTTGCCATATACTGCAAATGTGTT
ATAAAATAATAATTATAATAAACAAAATTAACCTGAGATATTCCCAGATTGAATCAATCCAAGGAGACTGAACTTCTGA
GTTTGTCTTGGAGTTAGTTGGGCTTTACTGCTACTTATGCTAGATCTTGAAGGCAGAGTAGGAAATATACTTAGCAGGG
AAGTGGGAGAAAGGTGAGAGGTTCCCCAGGCAGGGGAAACAAAGTGAGCAGATTTGGGGCAAGGTGTGTGAGATTGTGT
GGTTGGCAATATAGGGTGGGAAAAATTAGTTATCAAGGGCAAAGCTGAATAGCAGATTGAACCCAAATGGTAGAAGTTT
TTATTTAACACACAAAAAAGGCTGAAATTGATCCTGTAAGGAATATGAAGCTATAGAAGGTTTTTCATCACAGGCTTTG
ACATTTTAAGGTTTGTATCTTTGAAAGATAATCCAAAGATAAGAGAAAAAAACCTTAGATGTGTAAAATAGAAGTCAGG
AAAACTACACAAGCTATGTGTAAAGGGAGTCAAGGGGACAGGATCCAAAGGAAGACAAAAGCACAAACCAATTATTTTA
AATCAAATACTAGTGCAGTAACATATATTTTTAAGTTTTAAAGCTGCTTTTCTCCATAGCTTATTGATTACTCTTTTAA
AACTTATTTTTAATAGCAGATATTATTTATTGATTCCTTACCATTTTCTAGATACTTTGCTAAGGTTTTACATGTCTTT
TTTAGTCCTCAGAAAATTCTCTTCTATCTCCATTTTATAGCTGAGGAAACTGAAGCCAGGGAAGGTTAAATAATTTGTT
TGCAATCAAACAACTAGTGATTGGTGGAATTTGGATTTGCAACCAGGCAGTCTGACTCCAAAGGCCTCTTCTTAACTTG
ATCCTACATACCCTTCCTAAATAGTAGGCGTTTTTCTCAGAGCAGCTGTTTTACATTAGAGAAAACTTATTTGTAATCT
GTGATCAAGGAGAAACTGCCTGAGTTGCCTGGATTATTTTGGCATTTTTAATATGTACAAGAAAAATGTTATCAAATAA
ATGTAAATTTAAAGGTCCTGATGAGAGTTTACTTTCTAATAAAACAATTTTCAACATTTCCCATTACATCAGAAACTAA
ATTATTATTAAAACACATCTTGTGTTCATTTATTTTTGACAGGCTGCTTTTCACATCTTTTTTTTTTTTTTTTTTTTTT
TTTGAGCTGGAGTTTCACTCTTGTCGCCCAGGTTGGAGTCCAATGACACGATCTCGGCTCACTGCAACCTCCTCCTCCC
AAGTTGAAGCAATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGATTACAGGTGCTCGCCACCACACCCAGCTAAGTTTT
GTATTTTTTTAGTAGAGACGGGGTTTCACCATGTTTGCCAGGCTGGTCTCAAACTCCTGACCTCAGGTGATCCACCCGT
CTCGGCCTCCCAAAGTGCTGGGATTATAGGCATGAGCCACCGCGCGCAGCCTCCAATCTTATTTTAATGAAAATCTCAA
TTTATCTCAGTGTTAGAAACTAGGGCTTCATTTGGCAATGTGGTCTTTCCAGTTGTTTCATCTCTTTCAAAAGTCTTTT
AAGAATTATTGAAGTAAGTTAATTTTAAATTTTTGCTTTATCCCTTGAGATTGGTATATAGAGTTAGGAACTACTTGAT
TAAATACAGGAAGCTACTATAAATTTGAAATAAGAACTAAAGTTATAATGTGACCAGACTGGGTAAGCACTGATAACAT
TTGTATATATTTAAACAGAAAAAAAATAGTTAGAAGAATAATTTTTAAAAACACACACCAGATGTTGGTAAAGGCAAAG
ATATTTTTGCTCTTGACTTTGTCTATGAAAGTCAAGTGAATACTTTGAAAGAATTGATGATGGATAAGGCAAGTACATT
GATTTCTCAAGGTGTGAATTGTTATCTTCAAACTTTGTGCTTCCATAATTGTTTTTTCTTTAATAATGAGACATCTAGA
CCATAACTGGCTATGTGATTCTGAATCTACCTTTACAACTTAATCTTTGTGATTCCCCTATATAAGATATCTAGAGTAG
TCAAATTCATACGGACAGAAAGCCAAATGGTGCTTGTCAGGGGCTGGGAGAAGAGGAGAATAGGAAGTTACTATTAATG
AGTACAGGGTTGTCGATTTGGAAGGATGAAAAAGTTCTGGAGATGGATGGAGATAATCGTTGTGCAACAGGGGGAATAT
ACATTACACCACTGATCAGTATACTTAGAAAGGGTTAAAATGTCAATTTTACGTGATGTGTATTTTACCATAATAAAAA
ATACTTAATATTTACCTATGCTTAGAGAGAGTTGACATATAGTCATTTGATAAATAAAATTTGTAAATGCGTATGCTTA
GATAAACATAGAAAATTGTTTTAAAGTAGAACTTATAGATTTCTAGCTTTAAAACTGTGGAGAAACAATCTTCCTATGC
CATTTTTTTCTTTAAAAAGTCACTCAAACCAATAATTAGTACAAAAAACAGAAAGGTACATTTCATCTTTGAGGAAACT
GGGAGATGTCTGTGACTCTAAGCCACAATACATAAAGATAGAAGTAGGAAGAGAAAAGGTCAATGACTTAACCAAATCA
GAGAACAATACTAAAGTGAAGCAAACTGAGCTGCCCCAGTCGCCCAAAACATACTTTGGAAGATGGAAGAGTTCTAAAT
ATAGCAGGTGTATGAACATGTATATTATATACACTTCTCCATAAGCCCTCACTCTTTTTCAGTGTAGTCAACATATTTT
GCATCCCTCTCCATGGAAGACAGAGACTTTGGGATACTAAGCAAAGAGTAGGAGAAGGATGGCTGTATGTTTAACTTTA
TTTAGGACAATTAAATGAATGTCTGCAATGTGTCAGTAAGACCTTCAGCGTCCTTCTCCTACCCACACCAGAATGCTAG
GAAGCATATTTATATCCTTCTCTAGAAAAATAGAGATACCCCAGAGGAAAAAATCTCTTACAAATAGTAACATTTGGAA
GAGGCAAAAAAAATCCCCACTGGGCACTTGATGATACTGCAGTAAAACTCCCAGTACACAAGCCTCACCCATGCACTTA
GAACTTACTGTCACCTTTCTAGGGTCTCATTCTTGTGTATGAATTGGGATCAGGAATCAATGCTGGAGTTTGAGGATAT
TACACTCATTGCTCTTTGTTTACATTATTTACATGTATTTCTTTAATAAAATTTAAATATTTAATTCAAAATAATGTTA
AATTTGCAGAGATTCATTTAAGTTTAGAATAAAGAAGAACAAGAAATGTGAAAGAGGGACAAGAGGAGAGGCAGAATGC
AAAGGAAATACAGCAGCACTTAGAAAATTTTAAATTAGATAGTTTTTCTTCTGAAATCCAGTATTGAATTAGTGCAAAA
TTCTGAAAGTCAATTACAAAATTCATTTTATGTCAACATTACTGACTCCATGCACAAATGTTTATTCTAGTTTTAAAAA
CTAGTATTCTGTACCTTTTAATAGCCAATGTAATTTGTTGACAAATATTGAAATTTATACGTTACCAGAGGTCTCACGT
ATTGTTACCTTTTAAAATGATCATTTATTAACCAGTATTGCCTAATGAGGCAATCAAAATGTCATCTGTTGCATAGGTA
ACAGGAAACTACCATTACTCATGTTGTGAGATGGTCAAAGACCTTATCATATTTTATGGCTAACAAACTCATGATGTTG
TCATATATGCCCTCATCACAGTGTTTATGATACCTAAAAGTTAGTGCCTAAAAATTAGAAACAAGGACAGTGAAGTTAG
ATTGTTTAATCCTGCATATCTTAAAGATCTAACATTTTCTAGCTGTTAAATATGTTTATCATTATACTAGTAATGTACG
TGCACCATTTTTATTATATTAATTCATTGCCACTGTACAACTAAAGAGGATGGATGAATTTTAAAAACTTCCAAAAACT
TGGTAGCATTTTTTAATCTCTTTCTCTTCCTCTTTTCTTTCTGTCTTCCACACACACACACACACACAAACACACACAT
ACACATACATACATGCACACATACACATCATGAAGAGCAAGCTTTGGAATGAAATATACCTGGGTCCAAAAATTTTGAA
CAAATTGTTGACTTTCTTTATGTATGAATTATTATTATCACATCTACTTTGGAGGGATGTTGTGATGTATAATTAAGA

Fig. 6.285

AAGTATAGTCTACTTAGCATGTAGGTAATTAATAATTAGTAGTTATTATTATTATCCTAACCTGACAGTTTATGAAAGA
GGTAGGAAATCTGAAGATAGGAAAGCCTTCAAAATATAATACTCCGGACTTCTCCTTTGGGAATTAAGAAATGTAGCTC
CAAGCAAGGTTCATGCCAGTAGGAAAGTCCTTGAATCCAACTGTATTCCTAGTAAGTGTAATAAAATAAAAGAAACCTC
TAGAAATTGCCTCAAAATTCCCCTCCAGATAAGGAAAATAACACAATATTTCTCAATAATGAGGAACTGCTACAGGAGT
TCAGTGTCTTATTCTCATTAACGTTAGAGTACAATAGAGAATAGCAGGAAACTGTAAAAACTGCAGTCCCCTGGTCTTT
TTTTCTAAAAAGTTAGTTTGACATATCTGGAGTACTGAATTTCAGCATATTTGAGAGGCCTGAATATTTAGTTGATATA
TAATATGGCTCTAAGAAATATGCTCATGATAGATTGGAAAGTATAGAATATCTATTGTAATCTGAAAATAGGAATTTAG
AGAACAGAAGATTTGATAGTAGGCAGAGTATTTGAAAATAGTAATACTTGAGAAAACCTGAGTTGTATAGTAAAATTAC
TCCGTAACACCTCATTCAGTTGGCTTCATTTAATGTTTAATGTTTAATCCATGGATAAATGTCATAAGTCTCACAAGTC
ACGCTCACCATTGGATGATAAGAGAAAGGGAGATCACATTTTAGGTGCGCACAATCTACCTGTATGCAATTGACGCTTT
CCATGTAAGTGTTGCCAAGTTGTATCGGGGCACCATTAGTGGTATGAGACAGACTTTAGGAGTTATTTTGGACTCCTTT
TTTTCTATTAATATATCTTATATTTGGGGGCAAATTATACCAGTATATTAAATCTATTTACAGAATAAATATAAAGTT
ACCTTTTATATTCAGTTTAAGTTTTTTAAAAAGTGAGTCAATTAAGAAAAATATCAAATCATGGTATAGATGGAATGC
TAATATGGAAAGAATTATGAAGGTGGTGTTATGACTGAAGTTTCAGAAACATCAAATGACATAGTCATTTGATTCAACA
AAACATCTACAGATGGATGACCCAATGGATGTATACATCTATGGTACAGTCTATTGAAATGTGGTAACAACCAGAAAGT
AAAAGGTCCATACATTATACAATTCAGTACAACAGGGAAATACTGAGAAATAATCGCAGCTTCTGGATCAAAAGCATGG
GCCACATGGTTCCTAAATCCAGTCTCCCCATATTCAGGCCTCCTCATCAGCCTGCATGCCATCATATGCTTGCATGCTA
ACAGGAATTTCGAGGGAAATGCCATATCTTTTCCATTTGGGGAAGCTTTTCAGAGGGAAAACTACAGGATGCTTAGATA
ACAAAACATTCTTTCAGAAATGTTCATGTGAGAAATGGTCTTACAAGTGGATAAAACTCTGTAACATCAAATACATACT
TTTTTTTATTCTGTCACTACCTTAAATATTAGGAGTAGAAGCAAAACTTAAATTTAAATCTCAATGGTCTTACAACAT
AGCGCATCTTTCTTTCTCTGTAATGGCAACCTTGATGTACCAATCCAAAAACTTTGAGTATTCTGGTTAGTTCCATACA
TTGTCAGATTCCCCACTTAAGTTTGTTTTTGCCAGGGGAGAGGGACGATTTCTTAGTCATTATGGTACTATTATACAGT
CTTTAGTAGATGCCCAATAAGTGTGTTAGGTTTTCAGAGAAAGATTCTTGGAAGATGTAGAATGTTGGGCAAGTAAGCA
AGGAACAGCACATGGGGCTGCACTAAACTTGTGTGTGTGTGACAGAGAAGGGAGTAGCATCAGGCTAAATAAGCTCATT
GTAACATGGATCTGGGGGACGGTAGAACACAGGCTAATTATTTCTGGAGAGTTGAAAACTCAACAGTCAGACATTACAT
TCTCTGATCATTGTCATTTGCTTTCTGAAATGGCAACTGGAAGCTATTTGGTAGACCTTACATGGAGGGAACAGTGTTT
CAAATAAATAGTAGTTGCCTAATTTTACTTGGTTTGCTTTTGTTCTTTCTTTTCCCACATTTAAATTCCAATAAGAAAA
AAATTAAACCTCTTCCTCTAAATCCCCTCTCCCCTAAAAATAATTAGTCTCACAAAACTTTTAAGTTTCCAAAAAAATA
CATGATTAATTAACCTGCTTTAAAATGCCAGCAATATACTAGACATGGGACAGTGCTAAGAAAGTGTGAATGTCCCCTG
GCAGTCATAAGGAAACTGAAAAGCTTAAGGGGATAACTATGTGGAAAGCAATTTATTGGCATTTACCGTAAGAGGCCTG
AGAGTCATTGAAAGAAGACTAAGTCACAAATGCACCTTGAAGTGTGACCAGGGGAGCAGATGAAGGGTTTGTTGTAAGA
AGCAGCCAGAGCCTCTGGCGGATGCCGTACTACATTTTCCAAGTTGTTTGGGTGGGTCACAACTGCACTCCAACATCCT
GTCTGCAAATGCTAAATAAACACCAAGTTCACGTCAGACTAGAGAACCAACGTACTAGCTAATGCCATTTAAGCAATCA
GAATGCTTACATTATTTTCACTTGGTAATTCACATCCAAAATAATTGAAGTTGGCACACCCAGAGGAGTATATATCCTC
TGTGTAGATGTTCAGAGAGATAGGCAGGCTGGTCAACTGTTCCTTCTGTTGGGAGCAATTGGAATCAGCTTAGATTATA
TCTACTGTAATAGAAAATATTTTATATTTAGGAGGTGGGAAAGGTTTTGGCCTTCGAAATAATAAGAGATATTGACAAG
ATATAAAGCTTCATTCCTTACTGAAGAGCTGTTAAGGATTAGCAAACCCAAGTCTTTGTGTGTAGAGATGAATGAAATT
TGCATTTTTTTTAAAAAAAAATAAGGTTTAGAAAACATTGTGCAAGGGAACAGCCTTAATACGTGCAGCCACTTGTCCA
GGAATAATACATTCAATTTTTCAGTTTAAAATTCCAGTATGTTCTGATCCAAGGGTGCCTGTTACACTCTGCTGAATTT
TTAAGAGGTAATTTACATCTCTACAACCAACTCCAAAGCATGACATTTCATTACATCCGCTCAAAATGAACAGCTGCTA
AGTCATCAAGTTCTCTCAACTTTGCTTCTAAAGAGAAAAGTTTAGTTTTAGTGCTTCAGTGAAATACTTTTTTGAAAGA
ATGACTTTTATAAAATTCATTTGTTTATTATGGTAAATAAACAACTTAATGGCAAGGGGTGTGTTCCTTGTAAAGGTGA
TCACGGAATGTTACCCAGAATAACACAGACATCTCATTTCCCAGAGAAGGAAATGGTTTTATAAGTTTTGTGAGGTCTC
TTGTCTGCTTGGCCGGTTTACAGTGCTGGTCTCTGGAGCTGATCCGCCCCTTTGCTTTGTAAGTCTCAGCAATTGACGA
GGCTAGGCTGGGCGCTGGGCTTTTCTTTTTTTTTTTTTTTTTTTTTCCTTTCTCACTGCCCTGCGGTGTTTTGAACTGC
CTTCTTACAGACGTCATACAGCCCTTGAGGAATAGTTTCTGCCTGGTGAGATTGAATGATAGTTCTCATTCACAAAACC
CTGGATTCTAAGCAGGGACACACAGAAATTACTTTCGCAGGTAAATCAGCCCACCCAGCCAAAGTGTGGAGAGATTTGT
TCCTTGGCTGACTTCTTTGCTCCACGGAGAGGAGTGTTTTCCTGTGCTTGCCCTGAAATGGAACTTCCTTGACAGCTCT
CCCGTGTTACAGTACCTCCCGGTCATTTTCTTTTTCTCTCTCTCTACCTGCGCTCTTCGAGTGTCAGAAACCTTTAAAG
CTGTTACTATGGAATTGCAAAAAAGAGATCAAGTGACTCTTTCACTATGCTGGTTTCCCTTGTGACCCAGATGAAGAAT
CAATTCAGAATTCAGTTCCTCCCTTGGCATTGCAAGACACAGAAGAAACTGTCACTTCCCTAACAGCCTAGTACTGGAGT
AAATTCAGTATGAAGGAAGAAAGCGCTCCTGCGTGTTAGAACCTTGCCCATGAGCTGGACCGAGGACAGGAGATGGACT
CCAGGAAAATTGGATTTCTTCAAGCAGCCTCCCTTGGAAATGGAATATCTTTAAAATCTTCTTTGCAGAAAGACAGTTA
GAATGTATTAATCAGAATAGTTGAAGACTTATTTTCCTTTTTATTTTTTTTCAAAATCTTCTTTGCAGAAAGACAGTTA
TCCCGATCTACAAGTTCCCTAAGGACTGCAGAGGCAGTTTGGTAACGTTCTTTTCTCTCATGCTTTTCCCCTTTTCTCT
TTTAAGATTGACGTACTCCTTGAGTATTTAGTAAGTTGTGTGATGTCGAGGCTTTGTGAAAGAAGGCAGTATTGGCGGC
TCTTTTATTCTTTATTTGTTCCCAAACTCATGTGCTTTAACCAAATGGGTGCTGATTTTTTTTTAATTCCTCTTGGA
CTGTAACAATTTATCTGATGATAATTTTTAAAGGAGGAAAGAAACTTGCAGATATGTTGGGAGTTTTGAAAATGAAAAC
TTGTCATTTTTCAGTGTTTGATTCAGTTGCTTGTTTTCTTATCTTCTTTGCTTGCTGCAAGCAGGCTGGTGGTTGACAG
GCTTTGCCCTTGTCTTTAAAAGCAATACCCTCACTTTTAGCACAGATGTGTTAGAAATTAATAATGTTATTTATATTA

Fig. 6.286

ATCATACACATGAAACAAACTTGAATTTAACTATGTGGCTAAATGTATATCAAGTTGCTTATCATTCATTCATCTCTTA
TGTTTTATTTTATTAGAAATGATTCCTAGTAATTATATTTTTGGTTATTTTAATGCTTTTACTCTGATGAAAAAATATG
TCAGTTTCAATGTATTCTAATGTTCTATTATTTCCCCAATGGTGATTTGATATGCTAATCAGCATATGGCATGGCCCTT
AAGGAGTATTTTCCAACAAAGTAACTTTTTTTTCTACAATAGGTATTTACAAAATACTTTTATGGCTATTTTAGGGGTT
AGTCTTATTTTGTTTTTCTTAGTGATTGATTATAAATAACTAAGCTCACCTCTTTGAAATGGAAATAATCATACCTCAC
ACTGGGGAAATAAAAGCAATGATTGAAGTGAGGTGGTTGAGAATGGGAGGAAAACAGGCCAGCAAAATATGCATTATCA
TGTGAGCAGGCAAACACACATGTAAATACTCAAATTATTTGCGTCAGGAATTTAGCTTGTGTTTTTGTGGATAGGTTAG
CCTTTGCTGTTATTGTAGTGTTTTACAGTCAACCAGAAACAAGAATTGCCCCATCCGCAGTATTTCTGTGAGTTTTAAT
AAATTATAGATGAAGATTTTGTCTCTTAACGTTACTTGCCATTTCTTACAAAATAACACGTGCAATAAATTATTCCTTG
AGTTTATTTAAAGAAAAGATTGCATCTGCAAACAAATTTGGAGAGTCCTGTCCTTTTTTTCCTCAAACAATAAATACTG
GAAAATCCTTAAAATCCTTGTATGAATTACCATAGCTAATATAAATCACCAACATGAGTAAACAGAATTTATAATATAC
ATGAATTTAACTCATTTATAATTTATACCATTCCTATGTGAAAAGATGTTACTACTTTAAAAATAGTGTTTAACCAAAC
TATTTCTCTTTTTGTCTAAACTGCCAGGAGATGTATTTTCAAATTCAGGTTTCAATTGGAAATAATTTGTTCATTTCAG
GAGATGAGTAACATTGACACCCTTTACCTCTCTGAGATTATCATAGTCTATTTTTATCCACAATTATTATATTTTTTGT
TTTAAATTGTATGGGATATTTTCATAAGTCAAGCCACAATTTAAAATGCATTTTTAAATATTTTGATTTGTTAATGTGT
GTATTTTTCCATTTAACTAAAAATATTCTCCATAGACTTGGGGATAGAATGATTTCTGTGTAAGAAATAAATCTCTCTC
TATATATGCATGATTCTTAGATTTAACTACACACTATAGAAACCTCTCCAGTTATTAATCTTACATCTGACTTAATAAT
ATAACCGCTTGGGTATATCACTGCAGCTGCCAAAAAAATTTGGCCTGAGGGTATAATCAGCTGTAGTAACAGTTTTGCCA
TTTTATTATCCGTCTATCAGTCAAATATTAGACACATCTATTATATTTATTTATTTAATTACATGTATAAAATCAATAT
AGATTATAGATTTGGTATATAGAGAAAATATATGTTTGTGTGTATATATATGTATACACATACATACACACACACATGT
TTACTTGAGCATTAAAAAAACCCAAACGGCCTCTCTTCTTGTGCCTCTGCACATAAAGGCCACAGGCCTCAAATTGCTC
AGAGGGACAATGTTTTCTCACCAGTGTTGCTGTCTGCATTTCTCCACCACCACCCTACCCTCATTCCTTTTCAGTTGAC
TTCCCATGAGAGAGACCTAAAACTTTGCCATTTATCTCTTTTTCAGATGTTTATTTGTTTCCAGGTTGATCTCCAAAAT
ACTTTGTTCTTGGGACACATCTTTCTGGCTTTACCATCTTCACTCTGATTACATAAATCTATTTTGTGTTCCATTGGTC
TACTTTCTCCAAATCTGTCTACTGTCCTCCGGGATTCCCTAAAGCCAAACATTACGTTTGGAAGTTTGTTGTATTGTGC
AAGAATCCAATGTTTTGGATTACTTCTTTACCTTTTTCTATTGTTTCTCTCCAAGTATCATAAAAAGCAGTCCACACT
AACTTGTCCTTACAGCCTTAATTAAATTGCTATGAGATATTCACATTTTAAATGGGATTTCATGGCAAACTTGTATTTT
ATACCCTTCCTCTTATTAAAGGTCAGCCTGTTATAATTAAAATTTTATTAATTTCAAGACAAAATACAAATAACCTTAA
AATTAATCTATTTGTCTCTTTGTAACATAGGTGTCCAAATTTAGGGTTTATTTAATAAAGGTGTATACTAGGTTGCTTT
TATTTAAGGAACAGTTATTTATATGCCACGTTCTAGCAGAAAGTGATTATAGTATTTATTCTTAAGCATTATTTTAAAA
AAATGTGCCTGCATGAAATTGAGAAAAACTTTATATATTTTCTTATGCTCATAAAGCTAATAAAATTAGCAGATTCATT
GATTGCAGAATTGTTTGCCTTTCTTGCATATCTTAAATTCAGATTTAGTCAGTTGTTATATACTATGAAAATATTACCT
TACATATTCCTTGATATCTCTTTAACACTTTTATAAACATTTATAAACATTTCCCAGGGATACTTCTCATTAATGTAAT
TAAGACTTGTGATTTAGTTTAAGTAAGTAAAACATTATTAGTCTTACAAATATAAATATAAAGAGAAGTTTAGTCAATG
GAAGTGGACTTTTTTCTTTCCTGCTGACAGAACAGTGTTTAGGATTTATGTGTTACATGTAAGATCATTCATTATGTAA
TCTGAAAATAAAAGAGATGCTACTGTTCAAAATATGACTGTGGTTGTTTTTAAAGCAAATTTTAAAATTGGTTATTGTA
TATGTAATAGTACTTATACTTTTCATTATAAGTATTATTATGTAATAAGTATACATGTAATACTTAGGTTTGTAGATGC
AGAAAAAATTCTGGAAGACTCTGTCCAAGCTTTTGGTAGTGGTTATTTTTTAGGAGTAAAAAAAAAAATGGTAGGAGTG
AAGGTAAGGGGGACTGCCTCTCTTTTCTTCACTGTATTTGCATATTGTATGTAGTTTTTATCAATAAAGTATTATATAT
GAAAGTTTAAAATATTAAAAATATACCTACTATATGTATTAGCAAGCTCATCTTTATATATGCCAATATCTACTTAGAC
ATTAAACCACAATTTGCTCAGGTTATATAATATGCAAATGAGTATTTCAGTACTGGTTGGATACAATTTTCTGAATTTT
CTTGCAACTCTGACCAATGGAGGATTATAATTTTTTTATTAGCTCTTTTCTCTTAAGGTTGTAAAAATCTAGACTGGCT
TAGCATTCTTATTTTGGCCTCATGATCACAGTGGAAAGCATTCATATAAGCTAAAATGTCCAATTTTATAATTGAGAAT
CAAAAAGATGGAATAACATTAATATGTTGGAAGGAAAATAACCCATTAACCCCATTATTCCATCCTCAGTTATTCTCAT
TTTCAACTTACCTTACATATCTTAAATAGCTGTAAATACTATTTCTGTACTCTGCTTCTTCATTTAACATATCAATATT
TTTCTATTTTTGGCCAGGCGGCGTAGCTTGCTCCTGTAATACCTGCAATTTAGGAGGCTGAGGCAGGCAGATCGCCTGA
GGCCAGGAGTTCAAGACCAGCCTGGCCAAAATGGCGCAACCCTGTCTCTACTAAAAATCCAAAAATTAGCCAGAGTGGT
GGAACATGCCTGTAATCTCAGCTTCTTGGGAGGCTGAGGCATGAGAATTGCTTCAACCCAGGAGGTGGAGGTTACAGTG
AGCCAAGATCGTGCCACTGCACTCCAGCCTGGGTGACAGAGCAAGACTCTGTCTCAATTTAAAAAAAAAAAAAAATCCAT
TTTTCTAATACTTATAGCTTTCATTTTATTGAGTGTCTTATGAAAGAGCTCTATCAAGAATTTTACATATATATTATTT
AGTTCTTATTACAATATTGAAAAGAAGGAGTTGTTAATCCTAATTTTACAGGTGAGAAAATGATTCCGTGAGATGAAAT
AACTTGAGCAAGGTCATAGGCTGGGGTAACCCAAGTCTGTCTACCTCAAAGAACGTGCTCTGGTTCTTCAGCTTGTTGC
CTTCCTCTACTGTGGATATAATTATCTTTTTAATGGCCATAAAAGTGTTCATGTTGTGAATATTTCTAGATGCATTACA
GTATTTGGCAGTTTTCTTTTCGGAAGTATGGTAGCCTATGAAATTCAGGGTTGACGTTGTTGGTTGTTGAAAAATAGCT
TTGTGAAAGACTGTTGGTTGTTGAAAAATAGCTTTGTGAAAGGCTCTTGCAGCTTGTAGACCATTATATTCTCTACTGG
TAGCAAATAAGGTCCTCTGGTCTTTATAACAGACAATAAAGAACAAAAGGCCAATGCCTCACAATTTTGAATAGATTAT
CTTTCCAATTCTATTACCAAGTTTTTCTGTTCTCTGCAAGCTCTGTAAGGCTTCAGGTTGGAAACAAGTAGTACATATC
AGATTTGTATGACATCTAAGATCAGCTTTGAAAAAAATATGCAATCTTCCTTCCTATTTCTTCTATCTTAGAAACTTG
TAAATACGCAAACAAATGGAATTCTCATATTTTCTGCCTGTGCAATATATATTATGATTTGGTTTAGGTATGTGACTAC
TGTCAAAGTTGGTTCAGGGTTTTGAGCATGAGGTAAACTTTTTTTGGTCCTATTACCCAAGTTAGTGATGTATCTGTTA

Fig. 6.287

TGAAATATACTTAAAGATATACAGCTTTTAGAAATGATTAAGATACCTTGAAATATTTGATGTATTTAAAACATAACTA
GAAAGACACAGAGTGGATCACAGATAGGTTTACTCTTTAAAGTCATGAAGTATGAGATTCCCTGGAAAAAGCCATTTGT
CCACTGTACTTCTAACATGCTCTGTGTCCCTGGAGGAGTCACCTAGTCCCTCTGAAGCCAAGTCTACTGTCCTGTAAAA
TAAAAGGGGCAAGGCAGGTCAATGGATTTTAAACACGTTTATTTCAATGGGACATTTTTTATTAATGAAATGTGAGTTG
AAGTTAATATAAATGAATATTTATACTGTAATTTTTAGATATAAAATCATATATAAATTCAATATATAGATATAATTTT
TAAAAACATAGATATGTGTGAAATATATAAGTAAAAAGTATAAGCACACATAAAACAATAAAACAGCCACTGAGTTTGT
ACATTTACCCCCCACCCCAAATTCAAACCCTCTCCTTAAAATACCTCTAAAGACTTTAGGATTCCAAGGAATATTGTTT
GAAAACCACTAAGCTAATGACTGTTAAGATCACTTACAGTTTTACTCTCTGCAGTGCTGCCTTACCGCGGAGAGTCAT
TTGTGTATTCTGTATCTCTATATGGATTGGGATAAACTCGTAGGTAATGTAGCAGTTCAAATACCTCTGCCTTATAAGA
CCTTGAAGTTATGTAACTTTTCCCACTTCTGAGATATCACAGAAGAGTTATCACTATAATAGTTAAGATCTATTCATTT
TATTTAGCATCTTATTTTTTACAAGTTTATTTTAGGCTCATCTGGAATGAGAAAATCATGCACTAAACACTGTATGATG
CATAGCTGATAATTCAGGAAGTGAGTATGGTTGTTGGTAAAGAAATGCTGAATTGGTATGAAATTCTTCAGAAGCAAGA
CGCTTCTTTTGGTATTTCAAAATGGGGTTCTCCACCCTCTTTTTCTATCATGTCAACTGGCTGTGGTTATGTGTGCAAT
AATACTTAGTCCTGACTGCAACTCTTTTTTTTTTCTTCCCCACCCATCTGAGGCACACCATGGTTTTGGCCTTATCATT
AAAACTTGCCTTTTAGGAGAGGTAAAGGAATAGCTCACTTAGTAGTTCCTCTGTCAATCATTCCAATCATGTAGTGAAT
TCTATTGAATCAGAAGGGATGATGACATGAAGGTAACCATGAGTATACGAATGGTTAGTCATGGATCCACCCAACCATT
ACTAGCAAGATTGAGAAAAGTAGATTCTAAGATGAAACTGAAGGGGAAGAATATTAATGAGGCCTTTAAGGAGTTTTTA
AGCTTTTTAGGGAAAGATGCTGAGCGATATGTATAAATATTCCCAATAATACTAATACTAAACATATAGAATTGTCAAA
GTTTAGATAAAGGTATAGAGAATAGGGCCTGAGGGATATTAGCTAGGTTGGTAAGGAAGATAGTCACAAAGAAAGCACA
GTCTTAATAAAAAATCAATATAGATTTTCTTGGAAGCCTTTCCAGAGGTGATCCAATATCTCAAAATATAATACAGGGG
TTGAAGGTATATTAGAAAATGGACAGAAGTAAGGTATACTTCAGCCACAAGCACCAAATCTCTCCAGGGATTGGTGCCT
ATGGGAAGGGCTGGGGTACCACATGGGGCACAATGACAGCAAGCCTGGGTGAGACACTGTTAAATATAACTGTGTACAG
GTAACTAACTAATGAGAGCCCGTGCCAGTGATATGTCTCAGCTCTCAAATTGCCTAGTTCTTTGTCAAGTTTGACCTAA
ATTAGAAAGCATTTCAAAAGTATGGAAAGTAGGAAGAATGCCAGAACCTATGGATGCAGTTTTTTAGCATGACAGGGGC
AATATTGTAAGTATTTATTATCTGTCCTAAGCCTTCTAAGGGGATTGGCTCCCTAATGAGCATCCTGGGTGATGGCTGA
GGATGCGAATTAGAGAAGCTAACAGAAGGGTGAACTGCTCTTCAGAATAAGAGTTAGAAAAACACAAGGGAATATTTCA
AGAGAAGAGCTGGGGAAGTGTGGCAAGAAAAAAGAGATTATACAGAGACCAATATGGAAGAATTCCAGCCCAGTTTGAA
CTAAGCATCCACCATCTAGCACCCTACCCTGTTTAATAACACTGGCAACCTCTGGGCAAAAGCTGCCATTAATGAAACT
CAGTGTAGAGGACATTTGCCCCCCATCTCAGCCCTAAGAATTTCTGCCATAGGGTAAAGGGGGTCACCTGCAAGCCCTT
CCATTTCCCTACTACACATGAGGAAGAATAAGAAATTAGAAAACTAGAAACTAGGTGTAGAATGTATGCACACCAAGGA
TTGCATCTTCCAAAGTACCCTTATAGGAAGCAGTCCTGTTGTTTTAAACCCACAGAGTTAGGAAGTTTTCTTTATATCT
AATACAAATCTTCTTTGCTTAAATTCTAACCCATTTCCTCTTAGTTGTCAGTAGATATAATGAGAGTGAATCAATAGAT
AAACCAATTCTTCTTTATGGCCTTTGAAAACTGCTAGTGAGTGACTTCTTGGTCTTTTTTCATTTCATATTGCAAAATA
TTCATTCTAAATTGTAAAATAGATGGCACCAGTGTGACTTGTTAAAATAAATGTTTCATTAAACATAATTTCAGTATGT
AATTGTTTTCAGACTTCCTAGAGAAAAGTGCTCCCGTTGTATCTAATTCTCTTTCTTGTTTAAAATACATCAAAGATGA
GAAATTGAGCTCTTTTTAGTGAACTTGCTTGAGACATTCATATGGAATACAGAAAATAATAATTCCTAACATTCAGGAT
GTCATTCCATTGCAATGTGGCACAGAGTTTTTTCTTTGCATCAAGGAATTTATATGACTGATACTATTTTAGTCAGGAT
AAATTACTGTAAAATGTGTCCACTTTTAACCAATGGCATTCTAACATGGGATAGGCAACAGCGGGCTGTGATTTTTGCT
CTGATACTGCAACTTTGTTATAGAATAGCAAGTAACTGATTGGCAGCTAGATCACCAGCTAGCTGGAGAAAGCAGCTTC
TAGGTCTATAGTCATAGTTGGAGTCATAACCTCATTAATGATAGCTACAATGTATTGGGCATCTACTCTTTGACAGACA
ATGAACTTAGTACTATATACAGTTGAAGCAACTGTATGAATAAACTGTATGAATAAAACTTGAAGTCGCACAGCTTATA
AAATTACAGTGCTGCAGAAAAATCTTGGTCTGTCGAAACTACATCCCATATTTGTTGTTGTTGTTCTTATTGTTTTGTT
TGCTTTTCCTCACTATCTAAACTGCTTTGGCTACACATAGTTCTGTTTCATGGTATTAGAAAAGTAGTCAACAAGCTGC
TACTTATACTTTTCCTTCCTGTCCTAGACTGTTCAAGTTTCTTCTTTTAATCTTATGTATATCAAGAACATGTTTGCCT
ATGGTATTTGTCTGCCTTTCCCCCCAAGATTTGTATACAAGCCTCCAACCGTGAGCCCTAGAGATATATTGAGAAATAG
AACATGGACTTTGACACGGCTCCATTCCTTGGAGATCTAGCTAGTTCCTGACTCGTTCAGCTTATTGACTCTCTTCCTC
TGGTCAGACTATAAATTGCAGTTTTCCTTCTCTCTGGCATTTGACCAGTTAGTAGCACCATAAAACCTTTGAAATAAAA
GAGACCACAGAGAATAACCTATAATCTGATTTTCCCCACCCCTAACCCCAATGTGGAGCTGGAAACATTTTGCTAGTCT
TTAACATTTCCAGTCAAGTAGGGTCAAGAAAAACTGTTAAAAACAATGTCAATGCTTAAGTGGTAAAAAGATTTGTTGA
AGAATATATATATATATATATATATTTAGAGACAGGGTCTCACTGTGTTTCCCAGGCTGAGGTACAGTGGCTATTTACAGG
TGTGATCATATGCACTACAGCCTTGAACTCCTAGTCTCAATCCTCCTGCCTTAGCCTTCCCAGTAACTGGGACTACAGG
CATACACCACCATGCCTGGCTGGAGAAATATTTTTTTAACTTCAAAAATGAAGTTTGAGCTGAAAAAGAGAGCTAAAAA
TTAGTCTGTCAGGCAAATGTGTGAAAGCAGTTCTATTATAATTTGTATTGAGCTATAATGTAATTCCTAAACTTATGTC
ATATAGCTAAGTAAGTAGCTGTAATTCGCATCTTGAAATTTTAAATTTACTTCTTTCCTCTCAATATAGTCTTCATCTG
AATTAAAAATTGTGGCAATTTGTATTTATTGTGTACTTAACTATGTGCCAGGCACTGTGCTGTTCACTTGACCTAATTA
TCTCATTAGATCCTCATGATGAATCCTAGACAGTACTCATTAGTCTTATTCCTCAGACTGAGGCCTAATGAAGTAAAGT
GGCTTGCCTAAATTTGAGTGGCAAATAAGATAATTTCATGATTCGCATATTTTCTTAATTATAAAATGTTACCTTTAGC
AATGATGTATATGTTAATATGTTCAATGAGTTGATCTACCTGAAGTGCTTAGCACATGGCTGGCTCCTTGTGAGTGACC
AGGAACTGTTAGCTTATATTATGCATTTTTGAAGTTTACACATTGGTATGACTTTCTAAATAATCAAGAACTCTAAATG
TGAAAGCTGATTCATTTTGTAAGGGTTTCTTTTCCATAAGGTAGTCTTTTTTAACACAGTCAGAATTAAGCATTTATAT

Fig. 6.288

AGAGCTAGGTATTCCAGATAAATCACGTTAATAGTGTGATTCAAAGAAGACACACTGCTATCTAGGTGGGTCAAAGAAG
TAAACTACTTAGTGGAGGTGGCAAAATAAGAAGTGGTCAGTGGGAAGCTAAACCACCTCTGATTTAGTTATTTAAAACT
CAATGAGAACCCTCTAAGGAAGCACAACTAGGCAGGGGTTTCATCTGAAAGGAATGGTCAGCTACCTGAGCATTATCTC
TAGGTGCACCTTTGTAAAGACTTTCTCCATGTATCTTTCCTACTGGGTGCCACCCTGTGGCTTGGTCCTACGGTAATCA
CACTGCCAGGCATTCTCTACCTCTACAAATCCCTTACTCTTCTAGTCCTAAGGTGCATTCCTGGTTGTGTAATTCACAG
ATTATTATCTCCCTGGAGCTGAGCCTCATCATCTCTATCAGACCAGACTGAGAAGGACTCCTTTTTCCTTTGTCCCGCC
ATCCCAGCTCAGTGCAGAAGGCTTAAGATGCTTTCTCCATCATTTCTAAAGAACAACAGACAAAAATAGAGATCTGGTT
AGGTCTGTTCTTGTGGCGTGAAGTGTTAGGATGAGCTGAACAGCCACAGGGGCTAGAAATGTCAAGAATGCAATACGTT
AGAGCAGGCATTTAGCATTCCTGTCTCTGATATCTACTATTTTATTATGAGTAGTTACCAAAACAAAACAAAACAAACT
GTAAAAGCATTATTTTGTTATAATTAACAACTGCACATTGGATTAAGTGTGATTGAGGGTGGAGTTCACCAGCTTGGGA
AAAAAAATTAACCATTAAAGATTCCCTGAGTGTTTTGCTTTAAAAAGAGATAGCCCAATTACTTTTCTGTGTTTCGTTA
AGAGTCTACTAGTATATGAATCAGTAAGAGCTTCTAGGGTAATATAAAACACACACAAAAAAGCAAATTTGATGTTAGC
AGACAACTTTTTAAAGGTATTCGTGTAACTGAAAAAATCATTTTACGTACATAGGAATGAAATTTTATGTTTACCTAGA
AATATATGTGAAATCCCTCCATTATTGCAAGATCTTTTTCATGTAAATATCAAAAGAATTAGACAGTCTGCATTGTTTA
AAACCAAGATAGCTAGTCTTTTTAATCTATGGGCAACTTGTAATTACGAATAGCAGTAGCTGCCTGGAATAATGTACTG
AGAGCTGCGTTGGTCTCAGAGAAAATGTGCTGTGATCCATTGGTGATCTCTGCCAGACAGAAGAGGGACATAGTGTGGC
TGCTTGCCATTTAAATGGCCTTGATGATCTCATCATAACTCTATATATCTAATCTCACCATTAAATTTGCATGCAAATA
AAGTCATTGTAGCAGAAACAGGTTTTATGCATACATACAAATACATGTGTATTTTTTGATATGTTTTGTCTATTTGTCA
CCTATGAAGAACATATAAATATTGTAAACAGAAAAACTCTTTTTGGATGTTGCAAATGCAAAGAAGAAAAATAAGTAAT
TCTAATTTTCAAAGGTCACCCCTGTAATCACCACCCAGATTAAAAATAGTACCAGCAGCCAAAAGTCACCTTTATGCCC
CTTTAAGCCCCTGCCCCCACCTACTAAAAATAATAGTGATCCTGATTTTGAAAATCACAAACTTTTTAAATTTCCTGCT
TTTGAATTTTATATAAAAGGAATAATATAGCATGTACTCTTTTGTGTTTGGCTGTTTCCCTCACCCCCTTGCAAAATTA
TGTTTGAAAGATGATCCCTTGTTGATGCGGATATGGTTCATTCATTCTCACTTAAGTATAGGTAATTAAGCAAACTTTT
GTTTGAGATACAAATTCAGGGTAAAAATCAGATTTTCTATTTAAATAATAATTTGGTATATATGACTATTTGAGCATTT
TAAACTGTTGTCATTTTACAATAATTATTTTAGTATGATTTAATATCCAAATTCTGTTGCTTAGATTCACCCTCAGTGG
ACATTTCTTCTGAAGGGCCTTCCTAGACTTCCCCAATTAGAATTAAAACTCTCTTCTCTGTGCTGTCATGAAACCTTGT
ACATTTCTCTAACTCTTGAAGGATTACAATTATTGTCTTCTGTCTCACGTACCTCTCCTGTGAGCATGTTTTGGAGTAG
ACTGGGTTTGCTCATCTTTGTAGAGCAATGAACCCCTGTTCCCAGCACCATGCCTGCTCCATCATGGGCATTCAACATC
TGTCCTTTGCATGGAAAGTAGAACAGTGAGTTCTTCCATATTACAAAGAATATTACAGTCAATTTTTATTTTTAATTTT
CTTTTAGTAGATGGCACTTTTCAGGAGATTGTACTGGGTGAGTTGTAGACACAGTAGTTACTCTTTATGGCAAGAGTTG
TATAGTATCCGGGAGGATTTTTGCCTCTTCCCTGTGGCTTTCTTTCACCCTTAGTTTGCCACCACCACTGGCAATTCTA
ATCTAGGCACACCTTCCATTGCCTCCTGTGTTTCCCATTCTAAAATATATACTTCCAAGTTTTCCTCTATATTTTCTGA
CTGCTCGAATGACTCTTCTCGTGTCATAAACTAGTAAAGAGTAGTGCATATAGAAATGCTGATAAATGTGTTGCACATG
GTTATCACCCGACTGACATGCTGACCTTCTGACTCTATCAATGGGTGATTTTTATATGAAGCCAAGAAATCTGTTGGTG
GTAAGTACTAAGACCACCACTTCAGGCTCACTCTAACCTCATTGTGTGCATCTTGAAACCCCACACAGTTGTCACATAT
GAGCAGATTCCACAGGAGGGATGCTGAACCAAAGTGACAAGCTTGTCCTGGAGCCCTAACACAGGGATTGACCCCCGAC
CTTCAAAGTCAGGGAACAACTTAGGGTTGGCTTACCTTCTTGTATTGTGAACTTTTCCGATTGTGAAGCCAGCTTTTAG
CTTTACCACACTCCCAGACTTAAATATTTGGAATGGCAAGAAATTAGGCTTAAAAAAAAAGAAGGAAATTAAGGCTTAA
TCCTTAATAATGAGGAAGTAATTTGTTTTAGTATTGTACAGAAACATTTTCTAGCTACCTGATCATTTAGTCTAGTTCT
ATAGCTTAAAATATATAGTCCTTAAAGAAAAGTTTTATTTCTGTGGGTCTATTAGTTACAAAAGTAAAGGTGCATTTTT
TATTGCTTTATTTAAGTGTTTATTAAGCTTGTTCTGCCACAGGTACCCTGCTGGCTGTTAGAGAGACAATGGTGAAATA
TACAGCACTCGGCTTCATAAAATTTATGGTCTAGTGACTTTCTGAAGTATTTCTATAGGGCAGGAGACTTCTATTTCAC
CTTCTACTATATCCTTGGAATAGTTTTTACTTTCCTGGTAGGAGTGTGCATTTATATAAGTGTTTCAGTTGCTTCCAGA
AATCCAGTGGTAAACAACATAATTTTAAAACCTCCCTACTTGAATTTGGGGTGGAGTAATATAAAATAAATCTGGAATA
TTTGATTTTTTAGACCAAAATACTTTCCCTGGGTTAGAGAGATATTTTCTTTTCTTACTGGCCTGGAAATCCATGCCAT
TTTAATAAGAGATATTTTTATTCTAGGTAAATTGTTTACTTAATCACCTCCTAACAAGGCTGTGTCAGCCAAGTTAAAT
ATTTAAATTTATTTTTATTTAAATAAATTTTAAAACCAACAGATTTCTTTCTCATTTTAATGAATTTAGCCTTTGAGTT
TTCAAAGATAAAATATACAGAGTAGAACATTTTAATGTATCTGTAGAGAGGGAACACAAAAAGGGCACATCAGGAAAAA
ATAGTTGGAAAAAAGTGAATTTTATACAAAATTAACTCATAAAATGAATATAAGGCATTATTTCACTTATTGCCAAAAT
CTGTCTTTACAGATAATCTTCGGGAGACCTTTATTTTTATAGGCCCTAGTTAAAATATTTTTTGAATGCTTGAGGCTCT
ATTTCACTAATAAGAGAAATAAACTTTTTCTTTCTATAAATAACTGCTACTAGCTTGTTTGTCAGCTCTCTAAATAAAC
TCATTTTACTATTACTATGCTTGAGTGCTGTTATATATTCCTTTGTTACTGTGCATAATCCCTGGCTATAACTGCATTA
ATAAGTAAGGCCATTACATCAAATAGGGATCTAACAAAAACTTTCGAATGGACTATCAAAGACCAGATTCAATGCAGGA
AATCAGAAGGAAATGGCATTTATGTCCTAGTGTAGTTCAGTTAAAAGGCCTGCCCTTAAGGATTACAACTGCCATAAAA
GGGCACCATGCAAGAATGGAAAACCTGTTTACAACAAAATATCAAATTATTATCTGACTTTCACAATGAACCACATTAT
TCTATGACTGCCAGTCATACATCTGGACTACTATACCATTTGTGTGCAGTTACAGCAGCTCCAGTTCTATATGGCTAGT
TTTGAACTTAGTCTGACTTTAAAACCCATCCCATTTACTATCCTCTGCTTTTTTTTTTTTTTTGGTGTATATTGTGGGA
AATTCCATAAATGATTTTTATAAACTTTAGCCAGTAATCGGGAAAAACTGTAAGATTTTGTTTGTAAGCTTTATAAACG
TTACTTATAAGATTTTAATTGAATTCTAAATTAATTTCTAATTTGAACCTCTCCCTTCTCTTAGCTTTATATGCTTGGT
CATCCCTCCTTAAGTAATTAGCTTTTTTGAAGCTTTGTTTTTTTTGGTTTTTCACTGTTTCTGTTATATTGACGATTTG

Fig. 6.289

ACTTTCTTATAAATTGTTAGTAATTTCCTGAATAAAGTACAGAAGTTTATCTTTCAAATTTCCCATGGATCATTTCTTA
ATAGTCAAACAATTGTCTAAATTTCCAATACACAAAGAAAAGTTTTAGCTAACTTACTTCAATAAGATGGATAATTTGT
TCAAAGTGCCAAACACATTTGCTTTCGTAATTCATGCCATTTGTGTGTTAAGTGTATAAAAGAGATAGAGAAAGAATAT
AGGAAATGTAACTACACATGCAATCTTGGGCTTTCCAAAATGTTTAAAGTACCAAATTCCCTTGGTGCCAATTGCTTTA
GGCATTTCATCTTCACTCAGTTGCATCCTAAATATAGCGTAGGTGTGACATACCCTGTAAATTTCAAATTCACATAAAG
AAGTCCCAGCCTTCGAGGCAAGTCTTAATTGAATACTAAATAAAAACCTTAGTGTCTTCTGAAATGTTTCTGAATAAAT
AGTTGCTTTACAGTCTTTGATTTCTATGTTCGTTAGTGTCCAAATTCAGAATGGGAACCAACTTGGGGAGAAAAAGAAA
AAAAGACTCTCAGGACAATCTTTTTAAAGGAGTAACAGATAATCTATTTTGGCTAAGACAGGGTAGATTCAGGTAGTCA
GATAATAGAAAGGGGAGTCCCTTGTGTATCAACTGATGCTGGAATTTGTGAAATCCTATAAAGTTTTGTAGAAAAAAAT
GTTAAATTCATGGAAACTTGTTTGGTCATAATCCTCACAGTTTCTAATTTAGTATAACATCCTGAATAAATTCATTCAG
ACCGACGGAGAGAAGAAATTATTATTTGCAATATGTGAATTTCTGACTAATAGGAGTAATAGAAAATAATTGGTCCCTT
AGGATATTTCTGATTATATATGAGAGGCTTGGGGAGGGACTCTGTGTAACCGTTGCTTTTAACCCTTGTTTTTGATGGG
TAAATAGAACATTAATGCTACATGAAAGATACTTACTCTGGCATCCTCAAGAGAAAGTAGGTTCTTTTTTTTCTCAGTT
ATCCAAGAAACTTTTAACAATTCTAAAGAAAGAAATAAAAAGCACTTAGTTTTCAGAAGCATGTTTCAGCTTCTTGCAT
CAGGAGTAGGCCAGATGGCCATGTTCTGTATGGCTTTATAAATATTCCTTTTTGTTCCATGTAAAAGTTAATGGCTAGT
TTTAAACCTTGGTATCATTTCGAAGTCAGACCTTATGTGCTTAACTTCATTCAAAGTATTTCTATTTTGTTAGGCTGTA
GGAAAACATAGAGCTGAGCTATTAAAATTCCAGGGCAGTTTGGAATTGCCAACAATATGTACTGGAGAGATGGGGGTGG
ATTCTGAAGTCAAATGAATTTGGAACTCATCTTCTTTTACATGCTGGGTGATTTTGGACAAGGGGGAAAAGCTACCCAT
AGGGTTTCTGTGAATGTTAAGTGAAATAATACATGGAAAGTGCTTGAAGTAATGGTAGGGACACAGCAAACCAAAAAAA
ATGCTAGCCAGTTTATTATTAGAAGGGAAAAACTCCTATTAATATTTTCTTGTTTATGTTTGTGTTTTCATGTTAGTCT
TAAAACAAGTTACTGTTTGAGAATGTGAGAATTTTAACCATTTACAAAATGGTGTATGATATGACATGTATATGATCTC
TCACAAGTGAAATGATAATGGAAAGTTTACTGAAAATGTCTTAACAGTTCTAGGTAAAACTTAATTTTTCCTTAATTTG
AAAATTAATAAAAGTATGAATTAGATTTAATCTAAATTTATTATTCTGTTAAAGTCACATGAATGTGGAAAAAAATCAG
TATCACTTCTAACTAAATCTGGCCTTGAAACTTCTTTGACATAGTCTTCTTAAAATATATATATCTTATATTCTAAATT
GTATATTATTTAGAAATATGCTATTTCTAAACTGAAATGTCTGATATTTCTAACTGATATATATATCTATATATGATAT
GATATATGATTATATATATGTTATCTATATGATATATAATATATGATATATATTTCTAACTGATATAACAATGTATCTC
AGTTCTTAGAGATATGTAAATTATATTTTAATAGTAGCCTACAAAGATGATACAAGAAGATAAGAAATAAATATACTTT
TATATATAAAATAGTTCAACAGCAAGATTCTTATTTAGAATAATTTTCTACAGTTTTATTTAGGGTAGTTTCTATACAG
AAAAAATACATATTTTATCTCCTTTCTGTGCTAGGCTCTGGAGATGCAATGGTGCCTCCCTCCCTTCCTGGAGCTTACC
AAGCAAAACAAATTCACTAAATAAAATTATTCCTAATTGTGTTTTAAGTCCAGTGAAGAGAACACAGGAGGGACCGAGT
TAAACAGTGTGTTTGTGTATGTCTGTGTATGGGTGTGTGTCTGTGTCTGTGTGTCTCTTTGTGGCTGTGTGTCCTAGAG
ATGTACTTTAGTTGGAGTGGTCAGGGAAGTTGAGAACTGAAAGAACCAGTCAAACAAACATTGGGGAGAAGGGGATTAT
AGCAGGTACAAAGGTCTTGAATATCCAGCAGATATGAGGAGCAGAAAGGCTATCTTTTTCAATCACTTAAAAAGGAAAA
GAAGTGAAAGATTGCTGTCTTAAGAACTTAAATTTATATGGCACTCATGTATAGATTTCCAGTGAAAAGTTGGACAACG
TGAAATGATGGGTTTCCTACCTACAAGTCTCCAGTGTTTGTCTTTGACTGGGGTGTTTTCTGTACATATCTGACCTGAT
TTCTGTTGCTAGCCTGTCTTCCCAGGGGCCTTGGTGAGCCGAGGTCAGAGAGAGTGGACTTCACCTAGGAAAAAAGGAA
AGGCTTCTGACATAAAAGTGCCCTTGAAAATGTTCTGCTGCTGTAAATCCCTTCTCTTTACACAAAGTTTAAGACCCTC
CCAAGAGTTTGACTTGCTAAACTACAAGAGCATTTTTATTAGGTGTAAGATCTCACTTTGACTTTAAGTAGCAAGTGAC
ACACCAGGCAACCCTCGCTGAATTCTCTCTTGCCATAAGTGCATAGATTTCAGTGTTCTAATGCCTCTCTGAGCTAAAT
TTGCCTCTGATCTGAGTTCTAAATGTAATTGGATAGTAGATATATGTGAGTAAAAAAAAATTCTACCAAATGGTTGGAA
TAGTTTTCCCAAAGAATGTAATATTGGCCTTCAGCTGGTAATAGGATGTGCCTGCTGGATGAATGACATGGTTGATGCA
AAAGACAGATGTAAGCCGTGGTTCCCCAAACTGCAGTAGGGATGAGCATGACAGCCACACATATCAAAGGCCAGGTACT
GATATTCTTACTGGAAAGACTGCTCAGGATGTATGTGGTGTTCTTTTTCCTGGCCACCCTTAAGGAGTTTATGAATGGG
TTCCATCAGCTTCAAACAGCAAACACAGTTTGGCCTGTATGAACTGAAACCCATCACACATCATTGCCACGATCATTTT
CCTCATGTATGCAAGTTCTCAAGTATATTTTTGGTCACAAAACAGCAAAATCATGACAAAAGCAACAATAACAACCAAA
AGTAACTAAATACGATTTTTATTTAGTATGAAATGTATTGCATTGTAATTATTTCAACATCATAACATTTATTAAAGAT
GTATGTATCACTTTATTATTCTATGCTCATCCCCCCTCTTTATACAAAATGGAGCATAATCTGCACATTCATTGTTCTG
CAGTTTGTATTTTGCACTTGACAGTATGTTGATACAAAGAGAAGCTACTTGTGTTGCTCTGGAAGAACTTTATTGAGAT
ATAACTCGTATGCCATACTTTTCATCTATAGAGGTTATATAATGTATTGATTTTTAGTATATTTACGTAGTTGTTAGTT
AATATCTACCATTCTTTGACCATAATGAATAACAGGGTTTTCTCTGCACAGATATGTCCATTTAAGTAAAGATGCCAAT
GCAGCTAAATAGAATCACTCAAAAACAACTCCAAAATGAGCCAGGGAGAGTGGAGGGAAGGAAAAGGAGGAATGCATCC
AAACATAGCCCTACGTTCCATGAACACTCAGTAACATCATCAAAACGTGATGCAATTAAATTTTACCAGGTTTACTGCT
GTCCTGATGCTTTCCAATTTTTTTTGACAACAGTTTTGCCTTTTTCAAATTCAAATGGTATAATTGGGGCTTGGTAGTT
GATGTTTATCTTAATTGAAACAGATTCTCTTCATCCTTTTGCTCTGAGACTCCCACTTTGAGGCTGAAAGGTCATTTTA
AATCTGCAGAGCACTCGAGAAGCCACATAATGAATTCAAACAAATTCATGCCTATTAAAAGGAGGCTTCTCTTTCTCAA
CTTCCAGAGCTTACATAGAATAAACCATTTGGTTTTTGTCTGACTTTCTTTTAAAAGGAAGTTATTGTGCTTCCTTTTT
AATGCTCTAACTACAGAGAATGGGGAAATCCTGTTTTCATTTATTCTTATCAGAAAGAAAGTGTATTTTGCTCAGTAAT
TGCAATAAAATACTACTGGGGTTACAGCTACTATACTTGTCAACAAATTTAAGGGATATTCTTTAGCTGCATTACTTTA
AGGATTTCTTGTCTATCTTTTATCTAGCAACTTCATTTTTTAACATTTACTCTATGTACTTGTGTAAAGGTGCAAAAAA
TATATGTACAAAAATGTTCTGCTGGAGTTTTTGTAACAGAACACTGGAGAAAGCCTAAATGTCAATCGGTATATGGCTG

Fig. 6.290

ATTGAACAACTGATGCACAACTATAAGACAATACTGTGCATCTATGAGGAAGACCTCTCTAGTATGACACTATCTCCAG
ATGACATTTACTATTGTATTATTTTTATACTTTGAAAAGAAGATATGCACACTCCCATGTATCCATTTTCACTAGTTTT
CTTTGTATATACTCTTAGAGTTTATGTAAGTGCAATGAAAACATAAATTCTATTCTCTTCCTCCCTTTTTAAACAAAAA
GAAGTATAATCTGCACATTCATTGTTCTGCAGTTTGTATTTTGCACTTGACAGTGTGTCAATACATAGAGAAGCTTCTT
GTGTTGTTCTGGAAGACCTTTGTTGAGATATAACTCACATACCCTACTCTTCATCAATACAGGGTGTATAATTTCGTGA
TTTTTAGTATATTCACACACTTTTGCAACCGTCACCAAAATCAATGTAGAACATTTTACTACCACTATAAGAAACCCCT
TACCTTATAGTTATCACCCTCCATCTCCCCCATTACCTGCTCCATATCACCTGCCTCCCTTCCACCCCACAGCTCTAGG
CAACGGCTAATCTACGTTTTTTTCCTCTATAATTTGCCTACTCTGAATGTTTCATATAAATGGAATTATATAATATGAG
GTCTTTTGTGACTTGCTTCTTTCACTTAGCATAATGTTTTCAAGTCTCATTCATGTTGTAGCATATATCAGATTTCATT
TTTTAGGACCGAATAATATTCCATTATATGAATATACCACATTTTGCTTATTTATTCATCAGTTGATAGACACTTGCGT
TGTTTCACTTTTTGGCTATTTTGAAATGTGCTGCAATGAACATTTATGCAAAAGATTTTGTGTGTGCATATATTTTCCT
TTCTTCTGGGTATATTCCTAGTAGTGGAATTGCTGGGACAAATGGTAGCTCTAAGTTTAACCTTTTGGTTATTTTCCAG
TGTATCTGCATTCTCATGTTTCTTACAGCAGAAAGTTATTCTCTTGAATGGCTGCATCATTATTGATGTAGTCAAGGTG
TATTTTTAAGTGGAAAAGTTAAGGCACAATGTTCCCAGTTATGGAAAAATATGCTAAGACTGTACATACATAAATATGT
TTCACTCAAAAGCATCTTTCTGCGTATGCACTTAAGGTGATGGTAGAAGTTGCTAGCTTTGAGGAAGAGGTGGCTACAC
GTTTGGAATCTGAGGTAGAAGGGGGCTGAGTACTCACCATTTTAAACTTGGGGAAATTTTACTATGTGTGCTAATTAAT
TTTTCAATTGAAAATTTGATTCATTAATGTAAAGAAGAAGAAATGTAAAAAATAAAAAAGAAGAAGAAGAAGAAATGTA
TTTTCCTGGACTCCTCTGACCAATGTTGGTCAGGCCAGGGGCTTCTTGACCTGTGCTTTGTTTGAGTCATCCGGCACCA
TGAGGTGCTTAGTGCTGTACAAGCACTCTTCTTGCCATCTGCTCTGCTTGACATCATTTTTAGTTATTAGGACAAAAAA
TTAATGACTGCTTTTCTATCTTTAAGCCAAGACACCATTTAAAAAACAGACATTTAGCTCTTACTCTAAATTAGTGTTT
CTTAAATGTTTTATTCAAATCAATCCACATCAAAAGCAAAATAGGAGGGAAAACTAGGGTAGACATCTGAGTGAACCTT
GGGATTGAGAAATAGGAGGGTGGTATGTGAACTAATCATTAATGGTATTAGCAAATAGAGCTGGGCAGTCTGTCTGAAG
TGCTTCCCAGTTTTTTGTACATTCTTCTCCAAGTATCATGTGTTGGTGACTGGAAGAGGGAGTCTTTACTTTCCGCACA
GTTTCCATCATGTAGCTCTGGAAGGGCTTTGTGTTTGTTCTCATCTTTGCTTGAGAATCAGCTGTCTTATTTTGGGCTT
TTCTATTTTTTAAGACAAAACCTACCTATAGTGGTTATACATGAAACACACCAGTAGATTTGATTTCTGCCTTTGGTTA
AATTAGTTTGCCTTATTAAATGATAGGAAAGAATCAAAATTCGTTTGCCTTATAGATTTGTTCATTCTTATATTCACTC
ATGTATTCATTAAGCATTTATTTATTCAACACTCCTATGACATCACTCCTCACTGAGTGATGATTCCTTCTAGGGTGCC
ATAGAGGGCTTGATTTCCAGCTGGAGGAAGAATAATTTAATATCCTTTTTAATGATCAAAATTCTAACCAAACCCAATT
TTGAAAAATAACTTGACTTTGCCTAAAAGTACATTAAGAAAGATATAGAAAAGAGATTCTATGAAAATGAAATTTAATA
ATGTAAAATAATTTGGTTTTATCAGAAATTCATAAACAGACTTTACTTAGAGTTAAAAGTCCCTTTGAGAGGAGTAAAA
TCATTAATGAAAAAAATGCATACATTTTCTTCAATCATCATCTATATCCCATCGTGATAATGAGGAGTACGCTGTGTGT
AGTGACTGTGTTTGCAGGTGGAGGGAGTTTGAGTAATGGAAGTAATAAAGATGCTCCCAGAACAAGTACCGCATCCAAT
TAGCTTGCCAATTAACAATCTATTCCTGAAGTATTTGTTTATGAAGATGATTTTAACTAGAGAGAAGTCATATTTTATT
TTGTTTATATATAAAGATATGTTAATCATAAAATGTATTCCTTTCAAACAGTTATACATTTTTCCTTTGGCAGCACTAT
TGTTTATTTTAAAGGAAAAGACAGTAACTAATCACAGCATTTTTAAAGAAACAAATAGAGATTATGCTGCTGTAAAGCC
AGCATAAAGCCATTTTTCCAAATGTCAACAGAGTTAACAAAGAATTTTATGTTGTAAAAACCTCACAGTTGCCTAGTTT
ACTCCCTCATCAAAAAAAGAGGGGGCAAGATTCTTTGACATTTTTATGTATAATGTGACTAGAGAATGTGACTTCAGTG
ATGATGATGATCTAATTGCAATGCTAAGAACCATGGCTGGGCTACGACTGTGTGTGCACGTTGTTATGCTGGGGAGCAA
GGGTACCTAGGAAAGAAAGCAATAATGAAAGTATCACTTGGGTATTTGTTTATTTCTGGATCTTATTCTATCTGCTCCA
TATTATCACTTTGGCATTTAAAATCTAGATGATGGCTGGGTGGGTGCAGTAGCTCACACCTATAATCCTAACACTCTGG
GAGGCCGAGGTGGGAGGATCACTTGAGTCCAGGAATGTAAGACCAGCCTGGGCAACATAGGAAGACCCTGTCTCTACAA
AAAAATATTTTTAAAAATTCTCCAGGCGTGGTTGCACACACCTGTAGTCCCACCTACTCGAGAGGCTGAGGTGGGAGGA
TTGCTTGAGACTGGGAGGTCAAGGCTGCAGTGAGCTGTGATTGTGCCACTACACTCCAGCCTGGGTGACAGCAAGACCC
CATCTCGGGGAAAAAAAAAAACCCAGATGATATGGTTAACCATATTCAGTCATTATTCAGTTATTAGAAAATAAGATTTA
CAAGGCATCCATGGAGGGGAAAACAATTACACACCTGGTTAGTTGGGCTGAGGCTTGCAGAGATAAAATCACCTGCACA
CTGTTGCAGAGCCAGTGCTCCAACCTAGACTTCCGGACACCAAAGCCTATGGCCATTAAGCACTCTGCTGGACTGTATC
TTGGATAGTTTGCTTTATGGGGAACGTAGTACAACTTTACAATACAACTTTAAAAATAAAGTATAGCAGAGTAGCAGTT
TGTCCACAGTCAAATATGAAATATGTAAACATTTCACAGGTTCTTTTTTTAATTTTTATTTTAGGTTTGGGGGTACATG
TGAAGGTTTGTTATATGGGTAGACTCATGTCACAGGGGTTGGTTGTACATATTATTTCATCACCCGGGTATTAAGCCCA
AAGCCTAATAGTTATCTTTTCTGCTCCTCTCCTTCTTCCCACCCTCCCTGATCAAGTAGACCCCAATGTCTGTTGTTTC
CTTCTTTGTGTGCCTGAGTTCTCATCATTTAGCTCCCACTTATAAGTGAGAACATGCAGTATTTGGTTTTCTGTTTCTG
TGTTAATTTGCTAAGGATAATAGCCTCCAGGTCTATCCATGTTAAAAGACATGATCTCATTCTTTTTTATGGCTGCATG
GTATTCCTTGGTGTAAATTTACCTCATTCTCTTTGTCTAATCTGTGACTGATGGGTATCTAGGTTGATTCCATGTCGTT
ACTATTGTTAATAGTGCTGGAATGAACATTCGTTTGCCTGTATCTTTATGGTAGAATGATTTATATTCCTCTGGGAATA
TGCCCAGTAATAGGATTGCATGGTCAAACGGTAGTTCTGCTCTTAGCTCTTTGAGGAATTGCCACACTGCTTTCCACAA
TGGTTGAACTAATTTACACTCCCACCAAAAGTTTGTAAGTGTTCCCTTTTCTCTACAACCTTGCTAGCATCTGTTATTT
TTTGTCTTTTTAATAATAGCCATTATGACTGGTATGAGATGGTATCTTGTGGTTTTGATTTGCATTTCTCTAATAATCA
GTGTTATTAAGGGTTTTTTCATATGCTTGTTGGCCGCATGTATGTCTTCTTTTGAAAAGTGTCTGTTCATGTCTTTTGC
CCACCTTTTAATGGGGTTGTTTGTTTTCCTCTTCTAAATTTGTTTAAGTTCCTTATAGATGCAGGATATTTGACCTTTG
CCAGATATATAGTTTGCAAATATTTTCTCCCATTCTGTAGGTTGTCTGTTTAACTCTGTTGATAGTTTCTTTGGCTGTG

Fig. 6.291

CAGAAGCTTTTAAGTTTATTTAGATCCCACTTGTCAATTTTTGCTTTTATTGTGATTGCTTTTGGTGTCTTTGTCATGA
ATCTTTGCCTGCTGCTATGTTCAGGATGGGATTGCCTAGGTCATCTTCCAGGGTTTCTATAGTTTTGGGTTTTATATTT
AAGTCTTTAATCCATCTTGAATTTTTTTGTGTGTATGGTGAAAGGAAGGGGTCCAGCTTCAATCTTCTGCATATGGGTA
GCCAGTTATCCCAGCACCATTTATTGAATAGGGAGTGTTTTCTCCATTGCTTTTCTTTAGCTTTGTCGAAGATCAGATG
GTCCTAGGTGTGCAGTTTTATTTCTGAGCTCTCTATTCTGATCCATTGGTCTATCTGGCTGTTCTTGTACCAGTACCAT
GCTGTTATGGTTACTGTATCCTTGTATTATAGTTTGAAGTTGGGCAAGGTGATGCCTCCAGCTTTGTTATTTTTTATTA
GAATTGCCTTGGCTATTCGGGCTCTTTTTGGTTCCATATGAATTTTAAAAAGTTTTTCTAGTTCTGTATTTCACAGCT
TCTAACTACATTCTATTGTTGGACATCTTTATATTTTATCCAAATAGGAAAACATTAATTTAAAATTCTTGTCATATAA
TCTACAAAATATTTATATTCAAGGCACAATGACCCTTACATATTCTTTTTTTCTTTTCTTTCTTTCTTTTTTTTTTTTT
CGAGGCAGGATCTTGCTCTGTTACCCAAGCTGGAGTGCAGTAGCTCAATCACAGCTCATTGCAGCTTTGACCTCCCATG
CTTAAGCGATACTCCCACCTCAACCTCATGAGTAGCTGCAACAACAGGCGTGCCCCACCACTCCTGGCTTGTTTTTTTT
AATTTTTTTTGTTTTTTTTTTTGTAGAGACAGTGTCTCCCTATGTTGCCCAAGCTGGATTCAAACAATCTGCCTGCCTC
AGCCTCCCAAAGTGCTTGGATTACAGGTATGAACCACCATGCCCAGCCCTTAAAATAGTTTTATTATAAAGGCAATTT
ATGTGCATTCTAGGTTTCTTTAAAAACCTAGCAAGAGGCCAGGCATGGTGGAATGCCAGAAATCCCAGCACTTTGGGAG
GCCAAAGTGAGAGGACTGCTTGAAGCCTAGAAATAGAGACCAGCCTGGCAACAAAGCAAGGCCCTGTCTCTACAAAAAA
TAAAAAATAAAAATTATTTTTTTATGGTGTGTCCCTGTAGTACCAGCTCTCAAGAGGCTGAGGTGGGAGGATTGTGTTC
AGGGTGCAGTGAGCCATGATTGCACCACTGCACTCCACCCTGGGTGATGGAACAAGACTCTTAAACATACACACACACA
TATACACACACACACAATACGACACACGTATAGAAAAAATAAAAATACAAATATAAATTTCTCATAACCTCAACACACT
CCCAAATAATCACTGCTAATTCTTAGTTATTTTCTTCTATTCTTTTTCCAAGCAAGTATGATACTAATAGCAATTACCT
GGATTGTACAGTTTTAATTTCTTTTTTTAATTTAGCATTTTATCATGAGCATTTTTCCATATCACTTAACATTATTTCA
AACATTACTTATATGGATACAAAATGTTTCACCCTAAAAAGATTTTGTAACTTATGTATTTGCCAATTATTGGATATTC
AGGCTGTTTCTAGCTTTTCCCAATTATTAAAATTATCAGCAAGGAACATCTTTGAACTGAAACATTGGCTTATCTCTGA
ATATTTCCTTAGTAAAATAACTATGTCAAAGAATATGACTATTTTAAGACTATTAATATATGTTGCAAAAAAATACTTCT
CTAAAGGTTATACCAGGTTACACTCCAAGCCACACTGCTTGAGAGTTCTCATCTTACTGTGCTGCTGCAGGAAATGTTT
TTCATTAAAAAAAATCTTTATCCACATATTAGGTTAAAGTGGTATTTCAGTGTTGTTTTACTTAACACTTTTGGACTAC
TGGTGTGAATAAAAAATGGTTTTAATATTTTTATTAGCCATTTATCTTCTGTTAATTTTCTGTTTGTCTCTTCGCTTATT
TTCTATTGGGGTTGCATAGTTTTTTACTTTTTGCAAGAGTTCTTTATGTATTAGATAGATGAACCTTCTCCAGCTCACA
TTTATTGTAATTATATATTCCAATTTTTAGTCCCCTTTTTACTTTTGTTCATGGTGTTTTATACAGTCAAATTTATTGA
TTTTTTTTCTTTTGTAACTTCTTTCTTTGCTTTAATAATTTGAGGGCTTTTATCTTAAGAGTAGATAAATGTTTAGCTA
CATTTTCCGTATTTGTGATTTTTTAACCTAGCTCTTAATCTGTTTGGAATTTATCTTAATATAAGGTAGGGATACAAGT
TTATTTTTTCCCACTATACGTCTCAGGACCATTTGTTACATGTGCCCTACTTTGCTTATTGCTTTGTGTCACAGATAAA
ATTTTATGTATCATCTATCATGTGTAGACACCTCAGATATAAATTACATTTTACAAATAACATCTCAATAGAAACAAGT
AGAAAAAAAAGAACTCTGGTGCAACCCATTGAGAGAAACATACTACATTACAACTATAACAATGATGTAACTAAATTTC
TATTTGCCTTCTAAACCTTTTTATTGCTTGTAGCCATTTGCTAACTCCTGAAGAAACTTTTACCTTTTCTTGTCCCAGG
GAGTTGATTATTTAATTACAGTAGCATAAGACAAAATGATAAGGATTGGAATCCGCAATGAGCCCTTTCACTGGGATGA
AGCAGAGGCTGATGGGACTGGGTGGTAGGTGGGTAAGGTGGCAGATAGATGCAAGAGCAGGAACCACTCACCAGGCACT
AGGAAAAGCTCCATCTAGCCAGGCATATTGGCAATAGTGTGCCCTGACTAGTCTTTGGGGGCAAAACATAACAGTCTCC
TAAAAAGTGGCTCAGAACAGGTAATTCCTAGACATATGCCCAGGCGTGAACAGGACAACTTATTGAGGTATGGAAATAA
AATCTTATATTTTTTCTTATCCGCTCACAAATTTTCTTTTTCTTGTATTTTGTAAAATAGATAATATTTTGACATAATA
GTGCAAGAACATAACTTATTGAAAATAAATATACGTAATGGAGGTGCTTGCACTTTTTTTTTTTTTTTTTTTTTTTTT
TTACTAATAGATACGGTATCCAATAAAATTGGTAATCACTTGTCTGGATCATGTGACTTCAGGAAGCTCTATACACCAG
CTTGCAGTTCATGGATGGGACAGGAAGAGAGTATCTTAAGCCTATGTTGGAAGGCCAGGTGGACTGGAGTCTCAGGGAC
GGAAGATAAGCACAGGGAATTAAAGCAGAAGCCAGTAGTAATCAGAGATAAGACGTATGTTCAAGTTAACTGCAGCAGG
ATGGTGTGGTGCTGGGCTCCTGAATCTGTTTCTGCCTAAAGTCATATCTGTAAAGATCAAGGAGGAGGAGCCAGAGCAG
CAGGTGAGGTTCAAGTGATTAATAACACTGGAAAGGAGAACAGGTTGCAGAAACTATGGCTCAGGCTACCTATTCAGCC
ATTTTCATTTTTTGTAATGCAAGTGCCTATTACATAATCAAGGGTATCCTTAGTAACATATGAAGCCTACATTCTATTT
CCATTTTTAAAAAGTTCACCAGTAAACAATTGTACAGCAAATTTTATCAATGTAAAAAGCCATTGTACTCTATCCAGTC
AAACCATATTCACCTCTCCTAAAGTGCCCATTACGGAGGCTCTGGGAAATTGAAGTTGCCCTTAATCTTGAGTTACAAT
GGGCAGGGCCTCTTTTTTTCTCTAAATTTTACTCAATAAATGCAGGCTTCCTATGCATTAAATGGTGCCCACAAACATT
GAAACTACTAGCTCACCTCCTGAAATTCAGCACTTTACTATGTGTCTTTCAATGTAAGAGCATTCACTAATTTAACAAG
CATTACATAACATGTGTCATTAATGAGTTCAGTTAGCTAGGCCATGGAATAGATATTCCTGTAAATCAACTCCTTTACA
GTTACTAACTGACTTAGTTTCATGGCAGAGGCATTTATTTCAATTAGACTGTGGTTCCTGTTGAGATAAAATGAGATCA
ACTATGTGACATGATTTTGAAAACCATATTATATTGGTGCATGAATGTATATGTGTGTGGGTGTAGGTAGTTTACAGAC
AGAATGTGTAACATAGGCATGTGGCTTGTAACTGAAACTTTTACAAAACCTAGTTCATTCTCATTCTATAAAAGTGTGT
ACACACATGTGCATATACACACACACACTGTGATAATGTATCTGTGTATTTGAGGGTTATAAATATTTAGTTGTAGAGT
TCTGACAAAGTAGTAAAATAGTCTCACTTCATCTGGATAAAGATCACCATCTGGAACTATAAAAATTGCAATGATTCCA
AATTGTTGAATAGTTGGATTGCATATTTACTTTTCAGTAGTATGTTGGCATGCATGTAGATCCAGCCTTCCTTTCAACA
AAGAACAGTGGTGGAAGATTCCCTTAAATGGTTACTCTTTCCTCAATAAGAGCAACCATATAAAAATTATAGAACTATT
AGTCATCATAGTTGAAAGTATCGCATAAGATTAACAGAGTCCCCATCTGGTGATATGTTTTTACATCAGATTTATTAAG
ATCAGAGCGGGTTTTAACTAGAGCAATGACACTGCTATTATTAAATAAGAGACGGAAGGCCTAATACATAATTGTCTAT

Fig. 6.292

TTCTTTCTAGACATTTATGTGTTTTTATTAGGATAATGAATACAGAATTATCAACATCATGATCATAGTTTTTTTGGTT
TTTAAGTAGTATCTGTAATGGCAAGCTCATTTTTATTTTATAACCTACCCACACACAGACCTACAGTGAAGCAAAACAG
ATGCTGAAATATGTTTGTTGCCATTGGCTTTGAAGAAACCTCAGAGAGGTTTGCCTCAGTATTTTAAAAGCAAAATGGT
TGGTACCTTTCTGAATAGATGTCATTGTGTCCTTCAAACAAAGCTGACACTGTAGAAAAGAAATGGATTGCCTTGTCTT
TTTACCAGTGAACATCTTCACCTGAACAAAACTCATCAGGAAAAATAAAGGATTTTCGAAGTGTAGTTGTTGTTTAAGC
AGATACTAGTTATTCCATCCTTACAAATATTTTATATATAATATATACATTTATATATAATATTTATATGTATATTTCA
TCACACACCAACATCCACAGACACACACACACACACTTGTTTGACTACTTCCTCTATTCCTTGAAACGCTTTTGAGAGACC
TGAAATATCCTTGTATGGCAAGAGGGGAATGGAATCAAGCTGATTTTTCCATTTTTACAATGTGCCTGGGATTGTGCTT
TGCAGTTTAGTGGCATTTTCTGATTCAACCTCACAGAGCCCTGCATGGTATAATATTGTCTACATTTAAGATGAGAAAA
GCAAGATGTGGAGAGGCTAGGAAATCTTCCCAAAGGCACGAAGCTCCTGGCAGAACCAGGATTTGAGGCCAAGTATCAA
GGTTACAGTACAGATAGACATACATACACTCAATTATAAGTAAAGTTTTTATGAGGCTGGGTTTGACAGCAACATGATA
AGTAGAAGTTTTTGATTTGGTAAGATTTTTCGAAAACTCAGAGAGTTTATTGCCAAATTTATTTTTCTCCTAGAAACAT
TTTTGTTGTTGTTGTTGCTGGCATGGACAGTTATAAAAATAAATTAGAAGTAAACAGATAACAGTTTCCTGGCTGCCTT
CATGTCTGTGAGCCTAACACGGCTCCCAGAAGGAAAAAATATGCCTCAAGGAGGCTTATATGATATTGCTTATTTAGGG
AACCTTTGACCACTTATTTACAATATCCAGTTACAGCTGTGCTACTTTCCTTTTTGGGCAAAAGCACATATTCGCTTGA
CCATTATTTTGGAGGAAGCTGATATTGCCTGTCACTTCCAACATGTCCTTGTGTACCCTAGCTCATAATTGCAGCATTT
AAGCTTGGAGCTCCCCTAACAACACAATTATTGCCAAATTTACCATCGTTGGGAACATTGGTGAGGCCTGCTTCAGAGG
CCTCTTTGTCAGCAAGAAGCATGTTGCAGATATGCTTCACCTTGCATCATAAATGCATTTCTAAAAGTAGTTTCCTATT
GAATTATTTTGTAATAACATGTTTTTCTAACTACAAAATAAACACATGTTCATTGTGGACAAATTGGGAACTTCAGAAA
ATTCCCAATAAATATTCCAATATTTATTAATATTTTATAAAATACACATAACCTGTCATTGCAGCTTCCAGGGATAGCC
ATCATTAAAACGTGTTGGTTTATTTCCTGAATAAACCTTTAAAGCATATACACACATACCCCACAAACATGCTCACACA
CACACATATATATATATATATACATTTTTATGGTCATATATATCCTATTATGTGCCAGATGAAATCAGGTCGGTCTCTC
TATACACACACACACACACACACACACACACACACACACACACACACAGACACACACACATACATACATATATCTATACAT
ATATATGTATATATGTAATATGTACATACTATGTATGTGTATATATGTGTATATATGTATATATATATATGTGTATACATA
GTGTGTGTACACTGTATACATATATGTGTGTATATAGAGCAGAGAGACCTACCTGAATATTCATCTGGCACATAATAGG
ATATATATGACCATTAAAATGTATGTATATGTATATMTATATAGTGATGTGTGTATACATATATTATTTCCAAATTTTG
AAAATTTTTATTTATTATTATTTTTGAGATGAAGTCGCCCTATCGCCCAGGCTGGAGTGCAGTGGCACAATCTTGGCTCAC
TGAAACCTACGTCTCCTGGGTTCAAGTGATTCTTGTACCTCAGCCTCCTGAGTAGCTGGGATTTTAGTTTTGCCCCACC
ACACCCAACTAATTTTTGAATTTTTAGTGGAGACAGGGTGTCACCATGTTGCCCAGGGTGGTCTTGAACTCCTGAAGTG
CTGGGATTACAAGCATGAGCCAACATGCCCAGCCTGTATATATATATATAATTTTTTATTCTGCATTCTTCGCTTGACATT
TTTAAGAAGTATTTTCTCGTGTCATTTAGGATTCTAGAAAAATCTGATATTCTAATGGTGACATAGGAATCCATTTTTAC
ATGTAATAAAATGATTTATTCAATATTTAGCCATTCTTTCATTGTTGGGCATTTTAAATTTTCCTCTTTTTTCTTTATT
GTAGTGGTTCACTAAGCATCTTTGTAGAAGAAATGTTAATCTGTATCTCTGGTTAATTACTTTGGCAAAATTTTTGGAA
ATGCTATTACTGGGTCAAAGAGTTTAAATGGTGTCTAAACTTGTCAAGACATACTAAATATACTTCCAGATAGTTTTTA
CAACAAATTTTAAGCCTACATATAAAAAAACAGTTCCGGTGGCTCACGCCTGTAATTCCAGCACTTTTGGGAGGCTGAG
GCAGGCAGATCACCTGTAGGTCAGGAGTTCGAGACCAGCCTGGCCAATATGGAGAAACCCCATCTCTACTAAAAATACA
AAAATCAGCTGGGCATGGCGGTGGGCACCTGTAATCCCAGCTACTCAGGAGACTGAGGCAGGAGAATCACTTGAACCTG
GGAAGCAGAGGTTGCAGTGAGCCAAGATCACTCCACTGCACTCCTAGCCTGGGCAACAAGAGAGAAACTCCGTCTCAAA
AAAAAAAAAAAAAAAAAAAAAAAAAGGTTATTTTAAGAAATTGTATAGTGAATTCTCTTTTTTAAAAAAGGGAAAACAT
TTATATATTTTATTAATATTTAAACCTGCAGTTTTATAAAATTTTGTCTAGTCCGACACTCTTGTTTTACAAATGGGAA
ATTGAGGCCCCAGTTCCATATGAGAGACAAATACAAAAATCTGCCTTCTAAAGCTGGTCAAAAGCAGTTATATCTCTAT
GATCAATTCAGAAGTTGAGTCCTCTGTTGAAATGATTTCAATAGTTGAGGTGATTTTACTGTTTCTCTTTAATGTTGTG
ATATATTTTCTCTCTTATACGACTCTATAGTAAAAACGAGAATCATTTTACTCAATCTGGTTCATGTAGCAGTATCAGG
CTGTGAAATTCATACTGCTCAGACACTGGTTCTCCAACTGTGATGTACGTAAGAAATACTGTGCCTGCTGTCTCTTAAA
TGTAGAGTCCTGATCTTCATCCCTAAGACCCTGATTCATTTGCTTTAGATAACACTGAGAGCTAATCATTTTTAGCAAG
CATCCCAGGTAATTCTAAGGCCATATTGTGAGAAAAGCCAGTATAACGATGGAGAATTCTTATGTTGATGCTCTGACAC
TGGCTCTACATCTGTCCATAATTTATTTAACTCCTCTCTGCCTCAGTTTCCTTATCTATAAAGGAGGAAAGGAAATGCC
AGTCTCTTCCACCTGGGATTCTTGTGAGATTAAATGAAATAAGCCATGCAAATGATTTAACACAGTCTACAGCACACAG
TAAATACTCAATAAATGTGAACTCATTATCGTTACTGTTGTCATTGGTATTCATATTGATATCATTATTCCTGCATTGG
AAAATGTAAATGTACAATTTTAAGTGATTAGCATTGCTGGTGGATTATTGATTGCAATTTGTCCTGCTGTCTCTTCTGA
CATTGCTAAATTTCATTTACTTAAATATTTCCCTTATTTTTCTCTTGTTCCCACCCATGCACCCCAGTGGAGTTGAAAT
TGAGTTGAGATCAAATGCAGCAGGTGTTGCTCAGAGAATTTGGTAAGACTAGTTGAAAAAAGATCAGTGAAACTTTATC
AAAAATAGAATAGTGATTCTCCTGGTCACCTGCTTAGAGAACCCATTAAGAAGTGTGAGGTTCTCCAGGCCACCATAGA
GCTATAATCTGCACCTTGTATCAGCCATAGCAGGTATTTGCACAGTAAATTTCCCCTCACCTAGTTTATTCATAGGTCT
GATCATAGCACACTACAGACTCAAACTCCTGGGCTCAAGTGATCCTCCAATGTCAGCTTCTTGAGTAGCTGGGACTACA
TGTGTGGGCCACCATGCCTGACCATGGAGTTCTTAAAAATGGATATTGACATACATATATAGAAAATTCATTCAATAAA
TAGTTATCACTTTCCTATACCTGGTGTGAGAATTATGCTAGATATTGGAAATACAGAAATGAATATATTAATATTAAAG
TCACTTAACTAAGCTTTTCCCTGTGATAATCTTTCTGAAACAAAGCAAAATGATACAGAATTCTTTAAGTACTATTCAA
TTTGTGGCTATTTCCTCCTAAAGATCAGTGTATCTGAACTTGCTGGCTGCTAGATATTTTAGTCATTTCAAAATGTACT
GATTTGGCTAAAGAATCTACTTTGACCAAAATAGGATACCTTAAAATACAACATCAGCAAAATATGTGTAAAATCCCCA

Fig. 6.293

GAGAAAAGCCCTCTTAAATGCCTACTTATTTCAAGTCAAATTTAGTTAAACTACATAACTTAGTCCCCTGAGTGTCAGT
GGAATTTCTCCCAGAGCTGTGACTTCGTCAAGTAAAGTTACCCTCTCTCTTGACCTTTGGAAAGAGATGGCATTTGTTG
ATAGTTTTGTGTGTGTCCTTAAGCTGGGCGCTTAACAAATATTCTCTCTAACAAATATTCTCTCATTAAAACCTGAAAC
AGCCTTTTCTTACACCTAGAACTTTGTAAAGAATATGTCAGGAATAGGACAATCACCTTTTAAGGCTCAGACAGCCAAG
AAGCTGTTTTCTTTTTCAGTCAAGTGTAGAGAGCATCCATGACTGCCAAGTTCTCAGCCATGGCTGGTACAGGCGGGTG
CAGTAGGAGGCACAGTTGCCACTCCTCAGAAAGAACAGGGACATGGCTGGACCCATTGTCCTACTTGGCTCAGGGCCAG
GCAGGGTAGCAGACCTAGTTGTTGAATGCCCCTTTTATTGATAGTTATTTAACTTCAATAGGATCTTGTTTTTATGGTAG
GCAGATGGTCCTTAATTGGTTTGAACTTTGTCCTCTTTTCATAGCAGAAATTCTTAATCTGCTGCCCACAAATAAGCTT
TGGAGATCTGTAACTCCCTTAAAATAACAAAAATGTACAAAGCATTTAGTAAGTGTCATACAGTGTGCTGAGCACTTCA
CATGCTTTATCTCCTTTAAATCTCATAAAGACTCATCACATAGGTACTGTTTCATTCCCATTTTTAAAATGAAATTTA
AAGAGACTAAATGACTTGAAGAAGGTCACAAAACTAAATAGCAGTAGGGTCATTATTTTAGGCCAGGTTATCTAACTCC
AAAGCCCTTAGCTTAATCACTAGGCTATACTGAACTTTATGGAATTACATCCAAAAGGGATGTGTGTGTGTGTGTGTGT
GTGTGTGTGTTTGTGAATTTTTCCGAAGACTCACATTTCCAAAGATTTATAAGTCATGTCGTTCTCAAAGGGGTCTCTG
GTCTCCAAAATTTGAAACTCTTTGCAACAGGGTGGCTATGTTTTAGAATGACATAAACAGATACAATGTTCTCCAGAGT
CCAGAGCAGGGTCTAAACCTATTGGGATACTATACTTGTGTTATCAACTGAACCACTTGGTTAGTTCACTAGGAAGATC
TGCAGGTCTTGAGCTGAGCTTAGTGTTTTACAGACATGTGCCATTCATTCATCACCTACACCACTCATCAAATATCTGA
AGAACTATGAAGGCTGAAGGAAAATAAGTGGGTGAGCACAGGTGCAAATAAATAATAAATTTGGAGCATTCTATTTCGT
GTTATTTCTTGCTAAAACTGGCATATTACCCCAAACATCAATTGCAATATGCTATTCAACAAGAGTTTTTAACTAGTTT
ATAATAGGAAAATTGCTCTTTTTTAAAAACCAGGGTTAAAGTCACATCCTTTCTCTCCTCTGACAAAGTCACTGTCACA
TAAAATAATGGTCCTAGAGTCAAAATAATAACAGAACTTTGTTCTGATGGAGACTGTAAATATACCAATACTCCCATTA
AAAATATAGGTGGGCTGCCTGAACTGAGAAGGTTGTGTCATGGCTGTTAGTTTTAATAACTGGAAGGCTTGACAGAGAT
AATTGCGTTAGTGCTTCACTGGCCTCAAGATGCATGCAATGAGTAAAATTAAGACCATCTTATTAAAATACCAAAGCAT
TGTATAGGAAACTCCCATGTATTCAAAGGGGAAAGAAGAAAAAGGAATTTCATATTTACGGAGCATGTACTATTTTCAA
AACTCTGTTCTAGGTGCTTTCACATTCATTAACTCATTTTAATATGTGAGTGCTTTGTAATCCTTTTTGAGTGTTGCAG
GCTCAGAGAGGGTAAGAAGCTTTGCTTAAGGTCCCCTAGCTGGCAAGTAACAGAACCTATTCAAATTCAGATCTGATTT
CAAAGTGCATGTAGTTTTTGCCACAGTACGATGCTTGGGGAGCTAAATGGCATTTGGGAACCTAGAGTTAAAGCATCAG
TATTTTTTACTAAGGGGCCATTGGATCCTAGAGAGGCAACGAATTATAATGGATAAAAATACAAATTTCAGGCAAGTTA
CTTCTCTTAGCACCATTGCTTTATCCGGCATAGTAATAAAAATCAAATGAGACAATGGATATGAAATGCTAAAAATAGT
ACATTCTCTGTTGTTATTATCTATTGTGATTATTGTGTTACCCTTGGAAAAAGGCCTGTAGAATAGTGGCAGCTGGGTC
CCCTGGACAGTGAACTACCAACCTAAAAACTGTCTGGGCAGGCTTGCCTTTGGGAGTTCTTGTATATCAGCTCTAATTC
TGTCCAGGAATTCAGAGGCAGAGAGCAGGGTTGAGGAGAATTTCACAGGTGGTAAGATCTCCGGTGAGGAGGCATTTCA
GCAACGTGATCAGTGTTGCCAAAGCTATGAAAGATGTTGAAGAACACACTTTCTACCTGAGATATCAACTAAAGTTTGA
AGCTTCAGGAGAAGGCATAGTTCTATCAACAGACAGCAGTACAGCACCAATAGTTAAACCCTATATGGTAGATTTAAAT
GCTGAGCCTTCAAAATCATTTGCCTGTTTTACTTTAGCTCCAGCAAAGGGATAGAGAAACCCTTCTTCTGTCATCCCTC
TCCCATGTTTGCTGTTGCTTAAGCAGTATTTATTTGGTAACAAGAATACCTGGCCTTGCCACTTAATCTCCACCATTC
CAAAGAAAACCTTTCTGAGATCATCTTAACGTTGTCTCTAGGCAATAAATATCTCTGGTTTCTAGTTATTCCCAAGGAC
ACTGACCTCACATTTCTTACTGTCTTAAAGTCAAAAGTACCTTTGTCCTTAACTCACACCAATATGTATGAGACTAGGA
TATGAGAGAGATTGTTACATCTTGCTTGATGTTTTGACATTATAGGTAGTGTAGGTTTTGTTATATGTATGAGACTAGGA
GAAATGCGTATGAGATTTCTCAGGTGAAATAGAGCCTTTGATGTGGTACTCAAAAGGGATAACTATGACTCAGAGGAAC
CATTTCTAAAAGATGGCACTCTTTCTCCTTCCAGTTCTTTCTGTTCAATAGTAGGGCTGGGGAAAGGCAGAGGCAGTTT
TTGTTATTTCAAATGACAGCATCAAAGATAGTAATCCACGGTGCTCAACAAAAGTCGAATGACCTTTTTTCCTTCTCCA
TTCATAAATACATAAGAGCTGATGCTTCATTATGTTTAAATACAAAATGCACACTCCTACTTTGTTTTCCTATATGTGA
GTTCTCATGTATTCTTCAAATGCTCATCTAATTACTGTTACCTACTATTCCAAATGCAAATGACAAGGTCCCAGTTTAC
TGTTGATCCTATATTACAAGAGTCATCAATTTTGGTTGAGAAACACAAAGGACAAATATCTCATTATTGTGCTAACCAT
GCCTATTATTAGTTTTGTGCCCCCATAACATAAGTAATAGCCCCAAATACATGGCACTTATCACACACCAGGCATAATT
CTAAATGGCATGTTCTCCATGTTATGGAAGAAGAGACTGAGGCATGGAGAGAGTGAGTAACTTGGCCAAACTCACAAGG
CTACAAAGGCAGAGAATCAGGTTTTGAACTCAGGGCTGCCTAGACCCTGTGTTCTTAACTATCATCATATAGTGTCTCT
CTTACTGTTTCTCACTGAAGATGAGAGAGGATTAAAATCTCAGGAATAAATGTAACCTCCACAGGTAGGCTTATGCATA
AAATTCAGATGCAATGAATAACAAAATGACTGCCTCCCACAAAATTAAGAAGCAAACATATAATGAGGACTTACTCTGT
GCACACACTGGTGAGGACACGTTACACATTTCATATCACTGAGTTCACACACACACACACACACACACACACACACACA
CACACCTATATGAGGGCAGTATGATTTCCCCATGTGATAAAGAAGGAAAGGGAAGCTCAGACAGATTAGATATATTGTC
TGACATTGTTCAGATAGCAAGAAGCAGATTCAAGATGCAAGCATAGACCAGAGACCATTATTTGAGACCATGAGGCCTT
TTCTCACCAGTTATTCATTCACTTAATATTAATCACTTAATATATGCATTTGCTGAGCACCTGTCGATGTCTTGTAAATCA
GTGCAGGAAAATCATAAGATTTGAAATCACAGCATCTAGGTTCATATCTCAGCTTCATCATTAACCAGCAAACCAGTAA
ACCTCCCTGTTTGCAGTTTCATTATCAATAAAATGGGTTGACAAAAAATTTATTTAACAGAAATGTTATGAAATGCAAA
TAAAATAATGGATGTAAAGAAATTGGCAAATGGTCAAGCAAAACATGAATGTTAATTTTATGATGATTAAAGTAAATGG
TATGGAGACCCCCAACCTCAAATAGCTGGGAAGGGGTAGTTGATAAGGGGAGAAATGTGTTTAAAGCCAGTTGCTTTAT
TATTTTAACCCTGAGATAATGCTTTATTGACAGTGTGAATAAGATGTTTGGAATTGTGGAAGGAAGAACTGGAGGTCAT
ATTACACATTTCTTACTACATGTTGAGCTTTGAAAAGTGAGAATGATTTCATGAGGCAGAAATTGGTTGGGTCTAAAAC
TTCATTATCTGTAACACATACTCCAGAGAGTGAGAACAGTATGACCAGAAGTATCTTTGGAGGGGCTAGAGACAAGATT

Fig. 6.299

TGAAGGGAATTAGGACAAGATTTTAAAGTAACCTAAGTGCCGTGATAAAGAATCCACTTTTATAGGCAAAAGTAGTTAT
TCAAGGAAGTAAAATAATTACATTTTCTAGCCACTGCAAGCTATCTCTTTTTCCTTCCTTTTCTTCCTTCATTCCTTCT
TCCTTTCTTCCTGCCTTTCTTTCCTTCCTTCCTTCTCTCCCTCTCTCCTTTTTTCCCTTCTTTCTCCATCCCGTTTAAC
CACACACAAAATCCCAACAGCAGCGTAGAAAGTGGTGTTGAAGAGCTGGGCATGTGGGCAGGGACACCACCAAGGAAGG
TGGTGTAATATAGCCTGGTGACGACAGCTTTGGCTCTTCTCACCACTCCCGCTCCCGAGTAAGCACAGCATAGAGGAAT
ATGAGCTGAGTTCAGTGCTGTCCAGTTGGAATTGGGAATGTTAAAGCTAGAAGGTCAGCAAGTCCGGTGTTCTCAACCT
GACAACACATCAAATAGCTATGACAGCCTTTTGAAAATAGAGATTCCTGGATCCAGCTTCAGCTTTACCGACTCAGAGT
ATCCAAAAGGAGGCCTAAGAATCTGTATTTTTAAAAGCCTCTCCAAAGTGATATGTAGCAGTAATTGAAAAGGACAATC
TCTTTACTTCATTGATGAAATAGCTAAGTCCCAGAGAAGTCAAGAGGCTTGCCAAAATCACAACGAGGTAGTAGCGGGG
TCAGAACTCAAACTCAAGGCTCCCAATTCTCAACCCAGTAGTATTGCCCAGCATCAGTTCTTATCTTTGCGTTATAAAT
ACATTCCTGCCCATCAACAGTGGATTGCAAAAGCAGGGAGGAAGAGAGGGTGGCAAGGGTCAAAAAATAGCTATCAGGT
CCTATGTTCTCTACTTGGGTGACAAGATAATTAGAAGCCCAAACCTCAGCTTCCTGCAATATAGCCATGTAACAAAACT
GTGCATGGACCCCTGGATCTAAAATTTAAAAATCAATAAATAATACAAAAGAAATACATTCATATTTTTCTGAAATATT
CTTCAGAATATCAAGTGGGAATCCCTTTGTTTTGCAAAGCTGGTCTGATATGTTTAAGTAAATTTAACCAGATAGTTGT
TTTCTGTATCTCCCTCTAAGTATTAACAAACATTTACCATACACTATAAAGCATTACAATATTGTTAGGATGATTAACA
AGAGTACCAAAATGAAGGACTCTTGCTAAAATCCTTTTCCAGCTTTTTCATTCTACTATTTACAGACATGTAAGCACAT
CCATTCATTTCAGCAAAATGTAACATTCCACACAAAGGTTTTGAACATTGTGCTCGGCTAGAGAATATTTCTAGTGAGT
GCTCATAAGAGACATTAAAATAAGCATTTGTCTTTCATTCAAGCTTTATGAAGGATTAAAAGTAATCCAATTGTTCAAT
CCTTCATTTAAATCTTTAGTCCAAAGAACAGAAGATTTGGGATTGAGTCGTAATCCAGCCATTTAAATCTATGAGACTC
TAGGCACATCATTGCCCTCCTTCCTGAGCCTCAGATTTTTCTTCAGCAAATAAGGATAAAAATCTACACTCCCAATCCC
ATCACTTATTGCCCAGGGTCACTGTGTGAATTCCACTGAACAATGCCTGTGAAGGTGCTCAGAAACAACCTGCTTGTGA
GGGCATAAGAAGCACAGGAGGAAAAGGCCTTTGGGAATAATTCTTTTGTCTCACCCAGGACAGGTTATCTGACCATCAG
GGGCACAGATGGAACTCTTTTTGGACATGGCAAGTGGGTAAAGCACCCAAGGTGCCCTGAGAGATTTTTTTCATGTGGT
CTGAAGGGCCACATACTTTCGTGGGATTAGTGGCATATGTGGTATGGAAACTCATAATTACATTGCAAATTTAAAGGAC
AGCTCTGTAGGAAGAAGCCAAGAGCAGAATAAGCATAGATGTGGTTTGGATTTTATTTTTCCTCTTGTCAAATTTAACT
TAAGTTCTGAATTCTATAAAAAAAGAAAAAGAGTGGTGAAACAGTCATATTTTAAGATTTTTAAAAGTCTTAAAGACAT
GGAAAAAGCAAAGACGATACCTACACTGCTTATTTAAAAAAAAACTCGATTTGAGTTTCATGAAGTACTGGCATTTGCT
CACTCTGTAATTCTCAAAGACTATTTTCAAAATTTGGTCAAATTAAATTTCAAAGGTCAGCAAAGTATATAATCATGTT
TGGGTTCTTTTTTCCCCCAAGTTTAAAAAACTGACATCTATCCTTTTTTTAGGCTATCTGAATGTATGAAAAAAGAGTA
GAAGTTATTTTACAGCATATATTTTTCTGTAAAAGTAACTACATTTAACATTAAATTATTTACCAGTGGTATTCATTTT
ATATAAGCAGGCTGGAGATGGAGGTTCTATTTACATATTTCCACTGTCATGGTACAGTATAGTACTAAGTATTTTACAG
GCCAGCAATCAAAAGAATTACAATTGCTACTAGGAAACACTAAATCTGAGGATTCTGTCATGACTATGTATAGCTGGTT
AGAAAAATCTTTGCTGAATTGAATGGCTTTCTCATTACAGATGGCCTTGTTTACACTGTACTTAGAGTTCTGTGTGCCA
TTTTGGACTCCTCATTAAAAAAGCATAAGTCATTTTTTAAAAGAGGATAAGTGGGAAATAAAATGGGAGCCAAGATTAT
ATCGAATAAATTCTACAAAAAAAGAAAAAAGAAAGACAAAATACACATAATTGAATATCATAATCTATCTAGAAAATAG
ATGAAGTGGCACAAAAATGGATGAATATATTCAAATGTTTGAGAAATATTACTTCATAAAAATGAGAGAAATTTTAATG
GCTGGAGAAGTAAAACTTGATTTTTTATTTGAGAACATAGTTAATGTCAAAACAAAGAAAGTCAGCAATGAACATTGCT
TCTCAACTTGAGGTGATTAGAGAAGAGGTCAAATGCCTTTAGAAAACAGCTGTGCATTTATCTTGGCTGTGGACCTGGC
AAGTCAACAGGATTTATGAATAGCCTCACCATGAATTTGGTCATCCTGAGGGGAAGGAAAACCCCAAATTAATTTTGGA
GCAGAAGATCAGTGTAACTACTACCATCCTTACGTCTTCTCAATGAGCTTCATTATTCCTCCCAGAGTGGCTAGAGTAG
GTAGTTGATGAGCATTTGTGGAATGGATAGGTATCTCTTTTCTATGACCTACTCTATCACCCTCAGGATCTATTAATCC
TTTGAGTTTGATCTCTAAGGTGGCAATGAAATATTTCTTACACCAGAAATACACTGAAACTCAGAGAAAGAGGGCTCAA
ATTTGAGGAGAGTGCTATACTGGCAAGAGGATGCCCCAGGTAATATCCTTTCCTTCTTCTAGAGAGGAACATTTGGCTC
TAGAAAGGCATTTAGCCTATGAGTTCAGAACAGGAATGGTCTTAGGCATCTGATTCAACCTACGACATTGCCAGTCTGA
ACCAACTCATCCTGATCCCACTGCAAATGAGCTAGGCAACAGTGAAGAGTGGTTCTAGTCTGGGTTTGGATAAATTGTG
AAATATTTCTAGAATTTTTCTATAGACTCTGAACCATTTCCCCAGAAGTGTGCACATTCAAAATGTCATTTTGCTTCAG
AATAACATTTTGAATAAGGCAAGCCTAATTTTTGTTTTTTAACAGAATTTTAAAATAATTAATTCACAATATTTGTACA
TAGGATAATGGGATATTTTGTTACATAAATAGGATGTATAATGACCGAGACAAATTATTTAGGGTATCCAGCACCTTGG
GCATTTATCATTTCTATGTAGTGGAATAATTTCAATTTCTTTCTTCTGGCTATTTTGAAATATATGATACATTATTCTT
AACTATAATCTCCCTATTCTGCTATCACACATTGTAACTTATTTCTTCTATCCAGCTGTATGTTTGCATACGTTAGCCA
ACCTCTCTTCATTCCCCTCCTCCTGGTAGCTATCATTCTATTACCTTCATGATATCAACTTTTTTTAGCACCCACTTAT
GAGTGAGAACATGCCATATTTGTGTTTCTATGCCTGGCTTATTTCACTTAACATTCAGGTCAATTCATGTTGCTGCAAA
TGGCAGGATTTTGCTCTTTTTATGACTGCATAGTATTCCATTGTATGTGTATGTGTGTGTGTATATATATATATATATG
TATTTTCTCTATCGGTTTGTTTGTTGGTGGATACTTTGGTTGATTCCATATCTTAGCTATTGTAGATAGTACTGCAATA
AACATAGGGGGTTCAGGTATCCCTTTGATATACAGATTTCCTTTCCTTTCCTTTAGATAAACACCCAGTAGGGGGATTGC
TGGATTGTATAATAGTTCTACTTTTAGTTTTCTGGGAAATCTCTATGCTGTTTTCCATAATGGCCATATTAATTTATAT
TCCCACCAACTAAGAATTCCCTTTTCTCCACTTCCTCACCAGCATCTATTTTTTTTTTTTTTTGGTCTTTTAATAATAGC
CATTCTAAGGTAAGATACCTCACTGTGGTTTTGATTTATAGTTCCCTGATGATTAGTAATGTTGAGTACTTTTTACATA
CCTGTTGGTCATTTTACATCTTCTTTTGAGAAATGTCTTCATGTCCTTTGTCCACTTTTTGATGGGATTATTTGGGTTT
GGTTTGGTTTTGTTTTTGCTGTTAACTTGAGTTCTTGGCATATTCTGGATATTAGTCCGTTGTCAGATATATATATTTTGC

Fig. 6.295

AAATATTTTCTCCCATTTAACATGTTGTCTTTTCACTCTGTTGATTATTTCTTTGCTATGTAGAGATTTTTGGTTTTA
ATATAGTCCCATTTGCCTGTTTTTGTTTTTGTTGCAATGCTTTGACGTCTTAAGGGAAGCCTATTTCGATCTGGTACTT
CTGAAATCTCATTGGCTCAAGTGAAGCACGGGTGTAAATCCTGAGTGTTTGTTAATCTCGGTTCTGTGTGTCTTCTGTA
ATCCAGAGACAAATTCATGTGTCAGGTTCACACTTGAGCTGATCCTCTGTAACTTTGCTGATTGTTGTTAAGACAGAAC
AGAACCAGACTGGCTTTCACTTTACACAACAATCACAACTGTGTGTAATGATTATAGACTTATTCTCTAACATCTCTTA
AGCACTTAGGTAATGAGAAATGTCATAATGAAAATATCTGTTAACCGAGGAAGATCAAGGGAACAAAACAAAAAACCTA
AATGAAGTGTGAAGGTGGTAGAAGTAAAGACATAGATGGTTTCACTTGGGCCAGAGATAGATTGAATGTGAGACATTTG
AAAGTCTAATGTACTTTCAGTACGTACTTTCCAGTTTACTTTGATGGAACGCACTGTGTTGAATGTTATTGTGCTGACA
AATAAGCCCCCAAATTAAATGACTTAAAAAATAAACTCATTCTTCATCAAGTAGCGTTCTAGGATGGTGTTTAGGAGGA
TGTGGCAGCTCTCCTTGCTCTCAGTCACGGACCAGGATTCTCCCACCTTCTGTTTCTACCATCCTTCACGCATCAGCAT
CTTTAGCATCCAGCTGGCAGAAAAAGAACATCAAGATAGGCATGTGGGAGGAGCTATGAGCCAGTCCTGAAAGTGGCAT
GCAATATTTCTGCTCACATCTAGTCACTTGGCCAAATCTAATTGCAAGGGAACGAGAACTTCTTTTATGCCCAGGAACA
GGCAGAGAATGGAATATGGCAGACAACAAGCAGAATTTCCTATACTCACAGTCCTGATTATTGACTTCTATGCTTTCCC
AAGGTCATTTTGTCTTCAGCCAGATTCCATTTCAAGGAAACATGAAAATGTTTCTTCACTCTATAAAATCATTGTTGAA
GTAGATCCTGCTACCTCTGTGGTAGCCCATCCAACATCTTAAAACTTTTAAAAGATAATTTGTAACCATACATAATTCA
CCCAATATAAGAAATCATGAGAGAAAGCTAATCTCAGTGTACTTATTATACAATGAGACACATAATGAGACATATCTTT
TTTTATTCTCCACTATATATTTTAAAAGAATTGAAGAGGCAAGTGATTGTTTATGGCCATCGTAAGATAATATTCTTAT
CATTGCTTTGCCCAGTAAGATTGAAAAAATTGTCTGTAATTCAGGCCACACAACCCTCTGAAGCCCTTCGCCATTCATT
CAAGCCCCATTAAGGCAGAAAACCCATCTGTTTGGATTGTTGAGGTTGGAAACTGAATAATATCACTTCTCCAAAATAG
ATTTAATAGTAGGGCTGGTGAATGGTTTCCTGACCTGTTTGATGCAGAGTGCAAACCCAGAGGAAAAACATGGTATATG
AGTTTTCGTATCCATTAGTCTAAAAGAATCAGAATTCGGTTATATTTTAAAGGCAATTATAGTAGAACTATTACTTTTT
TGTTTTCTGTTATAATCTTACCTAGACTTATTTAACATACTTAACACATAATATTTTAAGGCTAAGTATTTCTACAAAG
GATTTATCATTCAATCATTCTTATTTAGTCAATAAAATCTTTTGGAGATTAATTTTTAGTAAGCCTAAATACCCAAATA
GCCAGGAATGTGATTGAGGATCACATTTTTAAAACCCATCCCTCAAAAAGAAAATTGTAATATCTTGAGAGACAGGTAT
GGTTTGAAGATCACCCCTCTTCAAAGTGAGTTCAATATCTGACCTAATGGAATCACTCCCCATTCCCCAGGACTAGGTG
ACACTCACTGATCTGGGAAAAAATAAACACGTGCAACTAACAAGAGAAATTTTGAGAATTATGAGTAAGCTTTGAAAATT
TGGGTACTGAAAATAGAGAGGGAGGGAGAGAGGGAGGTGATAGGGAGGGAGGGAAAGAATAAAAAGGAATGAAGAAAAA
ACTAATAACAATTTATCTCTTAAGAAAATAGAAGGTGCAGCTGGGTACGGTGGCTCACGCCTATAATCCCAGCACTTTG
GGAGGCCGAGGCAGGCGGATCGCCTGAGGTCGGGAGTTCGAGACCAGCCTGACCAACATGGAGAAACCCCAAATACAAA
ATTAGCCAGGCATGGTGGCGCCTGCCTGTAATCCCAGCTACTCGGGGGCCTGAGGCAGGAGAATCACTTGAACGCGGGA
GGCGGAGGTTGCAGTGAGCCGAGATCGCACCATTGCACTCCAGCCTGCACAACAAGAGCAAAACTCCATCTCAGAAAAC
ACATAATTAATTAAGTAATGATATAAGGTGCTAAATTTTTATTTTCACCCATCCAGTTTCTTTTCTTATTCTTTCCTGA
TATGTAATTACCTCAGATGCAGATCTGAGGTGAAACTAATGAAGATCAAGCTAAGAGCTTCTCACTGGCCTGGTTCCCT
TTCAAGTTGTAAGAAGTGGTACTAGCAGCTGCACGTAGTTTTAGGTTTTGTAAAATTCAAAAAACTAAGATTTTTTTGT
ATTATTTTTCTGAAAGCAGACCCTTATAATTGTATAATCTTCGTGTACCACAAAACCTTGATCCCACCCCTGATTGCAT
GGCTGACTGCTGTTCAAACAGAAGGATATTCAAAATAACCCCCGTTAAAATGCCTTCTTAGAGATGTTCCAGATTATTT
CTTCAAATGTGCTAATCAATCTCATTAACCTATTTCTTTAAATAAGTGACCAACTCCTAGCTAAATTAAAAAATAGTTA
TGAAGTTTATTTAAAGTAGAACTACACAGATAACCATGGTAAATGATAACCGGTATAGAAAAAGTACCGCTGCGTCTAA
AGATACCCATGTATTCACGATACAAATATTTATTGAGCAACTCGTACGTGTGAGGCACTGTTGTACCTGCTGGGGGACA
CATTAACGAACAAAGTAGATTTTTAAAAAAAAAATCTCTGCACTTGTGGAGCTTATATTCTAATGGGGTGAGTAAGATGA
TAAAATAAGTAAAAAACAAAGTTCATCAGAAGCTGTTAAATGCGATGGAGAAAAATTAAGAGTAAGGAAGGTTTTTTGT
TTGTTTGTTCAAAAAAAAAAAAAGGTTAGGAGGTTAGGGGTGCCAGTTTTAAATAGGCCAGTATGGGAATATCTCATGAA
GGTAACATTGAGCTGATATCTCTAGAAAGAATATGCCAGGCAAAGAGAACTGCAAATCCAAAGGCCCTGGGGAGGGAGT
ATGCACAGTGCTTCAAGGACAGCTAGGGACCAAGAGGCTGAGCAGAGTGAACAAGAGGGAGAGATGTAGGTAAAGATGA
GATTAGAGAGGCACCAGGGACCAGGTCACTGAGGGCCTTAAACCATTGGGAGAACGTAGTATTTTCTCTGAATAAAATA
GGACACCATTATGGGATAATGAGTAGGAACTTGCCGAGAATGGGCTTACATTTTAGGAGGATCGCTCTGTCTGCAATAT
AAAGAATAAATGTGGGTGGGTGGCTGGAGAAGTAGCAGGGCACATCATTAAAATATCAATGTTTCAAAGTCGGCTTATT
AAATCAATTTTACTTGCTCTATGTCATAGAAACAATAAATAAAGACAGAAACACCCCGCAACACTACCTTGGGTATTTT
TCTTTGCTTGCTTGTTTTTTTTTTTTGTTGTTGTTGTTAATATTTTAACTTTTATTTTAGGTTTAGGGTTACATGTGCA
GGTTTGTTATATAGGTAAACTTGTGACCCCGGGGGTTTGGTATACATATTATTTTGTCACCCAGGTGCTAAGCATAGTA
CCTGACAGTTAGTATTTTTTTTCTGATCCTCTTCTCTCCTCCCACCCTCCATCCTCAAGTTGGCCCCAGTGTCTATTGT
TCCTCTCTTTCTGTCTGTGTGTTCTCATTATTTGGTTACCACTTATAAGTGAAAACATGCAGTATTTGGTTTTCTTTTC
CTGCATTAGTTTGCTAAAAATAATAGCCTGTAGCTCCATCCATGTTCCTACAAAGAACATGATCTCATTCCTTTTTATG
GCTGCATAGTTTTCCATGGTATATATGTACCAGATTTTTCTTTATCCAATCTATCATTCATGGACATTTAGTTTGATTC
CATGTCTTTGTGATTGTGAATAGGGCTGTAATTAACACATGCATGCACGTATCTTTATGGTAGAATGATTTATATTCCT
TTTGGTATATACCCTGTAGTTTGATTGCTGAGTTGAATGGTAGTTCTGTTTTTAGTTCTTTCAGGAATCACCACACTGC
TTTCCACAATGGTTGAACTATTAATAATTTACATTCTAACCAGTAGTATATAAGCGTTTCCTTTTCTCTGCAACCTTGC
CAGCATCTGTTATTTTTTGACTTTTAGTAATAGCCATTCTGACTGGTATGAAATGGTATCTCACTGTGGTTTTGATTT
GTATTTCTTTAATGATTAGTGATATTGAGCATTTTTTCATACACTTATTGGCCATATGTATGCCTTCTTTTGAAAAATG
TTCATGTCCTTTGCCCACTTTTTAATGGGGCGGTTTGGTTTTTGCTTGAATGTTCGTTTAATTTCGTTGTACATTCTGG

Fig. 6.29G

GTATTAGACTTTTGTCAGGTAATACAATTTACAAACATTTTCTCCCATTCTGTAGGTTATCTGTTTACTCTCTGTTAAT
AGTTGTGTTTTTTTTTCCTGTGCAGAAGCTCTTTAGTTTAATTAAGTTCCATTTGTCAATTTTTGCTTTTGTTGCAATT
GCTTTTGGCATTTTTATCATGAAATCTTTGCCAGTTCCTATGTTCAAAGTGGTATTTATTTGGTTATCTTCCAGGGTTT
TTATACCTTTAGCTTTTACATTTAGGTCTTTAATCCATCTTGAGCCCCACTTTGTTAACAAGACGCTATTCCTCTTTGG
ACTTTAGCTTGATGAAGCCACATTTTGAGAAAGAGTGCATTTTGGAAATATAGCATCTTAGAAGTGATCTTAGAAAGTG
AAAGATTGGTAGTAACCTGCTGTGAGCAGTACAAGGAAAATAAAACTGAGTTATTCCTGTGGGACTACAGCTGACTCTC
AGGTCCAGCCTGGCCTGGAGAGCATGTGCTTTTCTGCTCTTCCCTCCATACTCTTAGTTAGTGGTCAGCACATGATAAT
AGGATGTAAGGGAAGAAATAAATCTCTACTTGTTTTATTCTCAATCACAGTGACACCTGCATGAAATTGCCAGAGAAAT
TAAGGCCTCCCAATGACTACCAAAAAAAAAGACACTTTCCGCTTCCCATTGTCAGCACGTATTCTGATTGAATGTATAT
GTTTACTACTTGAAGTTCTCATGATTTCTAGGTAATTACTGCAAATATGGACCTCATACTGCTACTGCAGGCTTTGCCT
CAAGAGTCCAAATACCATGGCCTCATGTTAGGGCCATTTGAGATCCTTTTTGAAAAAGTTGCTTTATTGTGCTAAAAAC
AAAGACACATAATATGAGATCTACCCTCTTACATTTTAAGTGTATAGTACATTATTATTAGCTGTTAGCACAATGTTGT
ACAGCATATCTCTAGAATTTATTCATCTTGCATGATTAAATGATACACATTGAACAACAACTCTCCATTTCTCCCTCCA
CCCAGGCCCAGCAACCACCATGCTACTTCCTGCTTCTATGAGTTCAACTACTTTAAATCCCTCATATAAGAGGGATCAT
GCAATATTTATCTTTCTGTGACTGACTTATTTCACTTGGCATAATGTCCTCAAAATTCATCCATGTTGTAGCATATGAC
AGGATATCCTTCTCTTTTAAGGCTAAATAATATTCCATTGTATGTATATACCACATTTTTTAATCCATTCGTTCATTGATG
GATATTTAGATTGTTTCCACATCTTGGTATTGTGAATATACATAAATGAATATGGGAATATAAATATCTCTTTGACATG
CTGATCTCAATTTTTTGGATAAATACCCAGAAGTTGAATTGGTAGATCATATGGTAGTTCTGTTTTTAATTTTTTGAGG
AACTTCCATACTGTTTTTTATAGTAGTGGCATCACTTTACAGTCCCACCATCAGTACATAAGGATTCCAATTTCTGTAT
GTCCTTGCCAACAGGTTTTTTTTTTTAATAATGGCCATCCTAACAGGAGTGAAGCAATATCTCATTGTGGTTTTCCTTT
GCATTTCCTTAATGATTAGTGAGGTTGAGCATCTTTTCATATCCCTGTTTGCCATTTTTTGTCTTCTTTGGAGAAACGT
CCATTTCTTTCATTGGGTTTTTTTAATTTTGAGGGGTTTCAATTGGGTTTTGGGGGGGTTTTGCTATTGAGTTGTAGGA
GCTCCTATGTATTGTAGATATTAATACCATATCAGATATATGGTTTGCAAATGTTTTCTCCTAATCTGTAGGTTGTATT
TTCACTGTGTTTTCTCCCTTGCTGTGCAGAAACATTTTATTTTGATGTAGTCCCACTTGCCTATTTTTGCTTTTTTTGC
TTATGCTTTGATGCTGCTGTGGATTAGGAAACTTAATATTGTTAAAATGTCCACAATGTCCAATGTAATCTCCATCAAA
ATCCCAATGGTATTTTTTTATAGAAATAGAAAAGCAGTCTTCATAAGAAACCACAAAAGGCTGAATAGTCAAAACAATCT
TGAAAAAGAACAAAATATCTGGAGATCTCACACTTCCTGATTTCAAAACATATTACTAAGTGACAGTAATCAAAACAAT
GTGGTACTGGCATAAAGACAGACATAAAACCAATAGAACAGAATAGAGCCAAGAAATAAACTCACACATACACAGTCAA
CTGATCTTTGACAAGGATGTCCAGAATATACAATGAAGAAAAGTCTTGAATGGTATTGGAAAATGGTATTGGGGAAACT
AGATATTCACATGCAAAAGAATGAAACTAAACCTTTATCTTAAATCATACACAAAAAAATCCACTCAAGACTTAATTATA
ACACCTGAAGCTGTAAACCTAGAAGAAAATTTAGGGGGAAAATTTCATGGCATTGGTCTTGGCAATAATTTGAGATGCT
TTCTTAGAGAGAGTTTCAGTTAAGAAAATTTTTCTTAACAGTCATTAAAAAGTAATGTATAAACTTCAAGTAAAACAAT
TTTTGGTTGGGGCTTTCTGGTTGCCTTAGTCAACTCAGGCCGCATAACAAAGTACCCTAGACTGGTGGCCTAAACAGAA
ATGTTCTCACAATTCTGGATGCTGAGAAGTCCAAGACCAAGATTGGCTGATTTGGTTCCTGTTGAGGGCTCTCTTCCTA
CATACAGATGGCTGCTTTCTCACTCTGTCCTCACATGGTGAAGAGAGAATGCTCTTGTGTCTCTCTCTGTTCTTATAAG
AACACCAGCACTATTGGATTAGGGCCTCATCCATATGGCCTCGTTTAACATATGAATTCTAGGGGAAACAAGATAGATT
TAACCTCAACCTCAACCTCATGTAACCATTGGTGATTAAGGCTTCAACATATGAATTATAGGGGAAACAAGATTCAGTC
CATAACACTGGCCTAATAAATACTTTTCAGAAAAAATTGGCCTTTTATCATATCATTGTGTCAAAAGTGTGCTAAGCAAG
TCCAGCTTATCCTCTTTCATTTATAGTCCAGACATCAAACTCATGCTATCATTTCCATCTTGAATCTCTTTATTGCCCT
GTGTTACTTGGGAGTGTCACTGACAAGCCAGAAACATATGTTGTATATTTCCAGTACCACCTAATGTTTTACTCATAAG
TAAGCATATACCCTTCATCTTTGTACCAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTATGTGTGTGTGTATG
ACAGGATCTCACTGTGTTACCCAGACTGGAGCGCAGTGGCATGATTTAGACTCACTGAAGCCTCAGCCTCCTGGGCTCA
AGTGATTCTCCTGCCTCAGCACCACAGGCTTGTGCCATCATCGTGCCTGACTTTTTTTTTTTTTTTTTTTTTTTTTTGT
AGAAACAGGGTTTCATCATGTTGCCCAGGCTGGTCTTGAACTCCTGAGCTCAAGCAATCCACTCCCCTTAGCCTCCCAA
AGTTCTGGGATTACAAGTGTGAGCCACCATGCCCAGCCCTGGGCTTTTGTTTATAAAAAATCATCTGTGAAAACAAAGGG
TAAAACGTGTCTGTTAAATATCTTAACTCTGTGCAAATATATATATTATACAAGCTAACATGTGTAGTATAATTTAGCT
GTGTAATCTTGTAAAGTAGCTAAATATCATGCCTTCTCCGGGTATCCTACTTAAATTTAATATGCAGTTTTATGATTGA
TTGGGAAAGATTGCCATCTGTGCATATCACTGTAAAATGCTAGTTTCTACAGTCTCATCTCCATAGATAATCAGAGAAA
AGTAAATATTAAAATGGTGAATTTTGCAAATCATTATTTTGTTTACTTCAGAGAAGCTATTTGACCTGCAGGGAAATTT
TCAATAGAGAAGTATCAGTGGCATTGATTAGAAACGAGCTTCATAACCTTGTGATATTGATAACAATGGGTAAAATATT
TAGTATTATAAAGAGGGAAAAATGTATGTAGTCATCCAGTTACAGTTACTCTCCCCTTAAGCTCAAGGGTAAGCCTCCC
CTCCCCTTGAGGGCAAAGCATCAAAATGAGTTCCAATGTGTTGGCTAACAGCATGAGCTACAATACACAGGGGAGAGTG
GAGTACAGGAATATAAACATCAGTATAATTGTGACCTGAGGTCCCCAAGCTACACCCTGTGTCTGGAGACCTGAGGTCT
GAAGGACTGTTCTGCTCATTATATTCAGCTGGAGCCCCACCTAGGTTGTTGGGACCTCCAAGCCTTCCACACTTCCTG
GTAGGAAATTATTCTTTCTCCTCAGTGAGTAATATCTAGAAAAAAATCAGCAGTCTCCACCCTCCCCAGATGTTATCAC
ACTGGAATTATGGAGTTGGGTGGAGACATAAAAGCAGCTGAAACTTTTAGAGCAATCTGGCTCCAGCATCTGTCACCTC
ATTGATTGCAAGGGCTGATTCAGGTGATTTGGCCCTCAGTTCTCTTCCTCTTTCATCTCTCCCTTTAGGTTCTTCCCAA
AGCCATGTGTTCAAATAAAGTTAAAGAGAATGACCTAGATGAAGATCTCCCTGGGAGAAAAAGAGTAATAAAAATGAAA
AACAATAGCTGCTAAATAATGGGAGTGTACTAGCTGCCAGGCAATGTGGTGAATGCTTTCCAAACATTTTCTCTTCTAA
TCCTTATAATGGCCCTAGAGCTAGGTATTGTAATTATCTTTATCAGCAGTGAAAGCCTAGAAAATACAGCAACTTGCCC

Fig. 6.297

TAGAGCACCCAAATAGGAAGTGGCTGAACCAAGATTTCAAATTTAACCTGTGTTTTCTAACTCTTAAATAAACATCTTA
ACAGGAACATTTTTGGTAGGTCAATATTTTCTATGTGCCATTGTTCTTACTATGTAGTGAAAAAGGCAGCTTTCAGATG
GTCCTGGCTTCAGTGATGGCTCCCAGGATTCCCAGCGACATTCAGCAAGATCTTCCCTGTGAGTGGCCTTCATAGATGC
TTCGGTAATGGAGGCTGCTATTGATAGAGGTTCCTTAGCAGCTGCTCCACTGAGGCCCTCATTGCCCCACCCACTTTGG
GCTTCATACTGGGGGTCAGTGCTAAGTATAAGGTCCTGATGGCTAGGATAGATGAGGAAAGCTATTTACTCAGCACAGT
AGCAGGACTCTGGCTCAGGAGAGGGCCCATATCATGGTCAAAAATAAATTGGAAAAGTTTAAACTAGGGAAGCAGTGT
CTAGCAAAAGGCCAAAAAGATGAGAAATGACCTTCAGCAGACAAACAATTACAAGGTCAGTAGACACAAAGTATGCGAG
CAGTTGAGAGCGTGGATGAAAGGTAGATTGGAACTGTATTACCATCCAGTAATTCCACTGAAATGGAACAGTGTGGAGA
ACTGGGAGTAATTAGTTCATTCGTCAGTTTGTCCGACTTCTCTTTGTTTCTTGKAGGGGGCTGGTTCCATAGAAAAGGA
TGGGTCTGTGGAGTAAATGGTCATGAGTAGTGCTAGCCACACACATTCTTTAACACTTCTGAATGCAGCAGGCCAGCTG
GTCATTACTGTTACTGCCCCCTCATGGGAGACCAAATATAGCTATATCATTCCTCCTCCAAAACTGCCTTCTGGCAAAA
GTTATCTCTTTTAAGAATTGTGTGCATTCTTAAATTGCATTAAGGGAAGCAAACATATGGAACAAGAAAGCACCTCACT
TAGTTCCATTTGCTAAGCCCTTTTGCAGACCCACTGACCCTTCCTTAATTCCAAATGAAATCTCAAATGCTATAAAGAA
ACCCGCCAAATGGGTTACAGCAAAGACTTTTTTACACCCTACTGTTATGTTCAGAATTGGAAAAAGCTGGGGATTTGGC
AAATTCCAAAATGTTGGGTCATATGAAAACTTTTTTTTTTGAGACAGAGTCTCGCTCTGTCGCCCAAGCTGGAGTGCAG
TGACGTAATCATGGCTCACTTCAGCCTCGACCTCCTTAGTTCAGGTGATCCTCCTGCCTCCACCTCTGGGGTAGCTGGG
ACTACAGATAAGCACCACCACACCCAGGTAATTTTAAAATTTTTTGTAAAGATGGTGTTTCACCATGTTGCCCAGGCTG
GCCCTGAACTCCTGGGCTCAAGCAGTTCACCAGCCTTGGCTTCCTAAAGTGCTGGGATTATAGGCATGAGCCACCACAC
CCAGCCCCATACGAAAATTTAGTCTCAGAATTAGCCTTTGCATGCGTCACCTGTAAGTTAATCAGAATGTTACTTTCAA
AAGTTCCMTGCAGGTGAGGAAGCTAAAAGGTATTCTTGTATTTTTTTAAATGAAACTTCATAATAGAGGTGTAAACAGA
GTCCATTCTCCCCAGCCTTAGAATCAGACAGCTTGAGTTTAAAACCCACTTATGAGCTTGAGCATACTACTGAACATAG
AGTCACTTGTCTATGCCTCAGAGTCCCCATGGTCGAATGGAAAATACAGTGCCTACTTCAAAGTGTTATTGTGAGGATT
AAATGAGATAATATATGCAAAGCACAGCGCCTGGAACATGGAAAGTGCTCCAGAAGTTTTATTGTTATTAACATTATTA
TTATTGCCACCATCATCATTAAACTTGGTAATTTTTACTCTCCCCAATCCTTTAGTTACTTTTTCAAACTTCTAGTTTT
TTGCTTGGGCTCCATCTAATTGGCTGTGAGTCAAAAGAGAATTCACCACATCCAAGTGTTTTCTAAAGAATGTCTTTGG
AAAATTCACAACTGATCATTTTGATACCAGCATCTAAGGTTAGGGCTACCTTATCCTTCATCACCTTCTTGTTTTATTC
ATAACACCACGATGTGGACTATTGATAAAATTATGTTTCAAAGATAACTAGCTTATTTGAAGCCATCTATAATTTCAGC
CCAAACTGACTAATTAGGCTAACTTTCAGAAAGTTAAGTAAGTGTCTAATTCTCAGTTAACTTACTACCTACTGAGTAA
AAATGTGCTGCCTTTTAAAATCCACAACTAACCTCCCTACTCAAGGCAAACCCCCTAGTTCTAATATTTGAAGTATTTA
ATGAACAAGCCTTTTTGGGGGTCCTCTTGTAGTTAAAACATTTATTTTTCTCCTTTTTTTTTTTAACTCTGTTTTTTGT
CTTTCTTTTTTTTTTTTTTTTTTTTTTTTTTTGAGACAGAGTCATGCTCTGTCGCCTAGATTGGAGTGCAGTGACACGATC
AGTCACTGTAACCTTGAACTCCTGGTCTGAAGCGATCCTCCCACGTGTGCCTCTAAAGTGTCGGGATTACAGGCATGAG
CTACTGTGCTCAGCCTCTACTCTGTTTTCTACCTTTTATTTGTTGCAAAAGCAACATGTTTATTTTAACAAATACTGGT
CTTCCTCATCTTACTCCCCTGAGATTTCAATGTTAAAAGTTGATTTGTGTGTTTCCACGTAAGTCTTTATAACAAGCTT
CTGCTGACACTCCTTGGCCCAGCTTTCCATAAACACATCCATCCCTACCTATTAGGTTGAACTGTACAAAATTGCCATT
TTTATAGGTCCCCACTATTCTTTAATACCAAGCCTCAAATTTAGCCAGACACTAAATGTCCTGTTTTATATACACGCCT
TATTCATTCCTTCTTGGTTTTGTTTTTGTGGCTTCACTTTTGCTGGATGGCCTCCACCCCCAACCCCAGCTCTACTCTG
GCTGGACATTTTTTAACTCTCCTTCAAAGGTGTACATCCTGCAACTTCTTAAATTCCCTTTACATTCATTGTCTACATC
ACATAGTCTGATTGCCTATATAATACAATTTCGTGTTTTAGTATTTATATGCTATTTAATACAGATGCCACCTGTTTTG
CTGCTTTTATTTTCTCTGGTTGCTTGATGTTCTATTACCTTRACTAGACTTTAGTGCTTTCTAGAAAAGGACAATGTGT
AGTATATCTGTACTTATTCAAGTGCTGATCTAAGGACATAGGATGTAATGTAAAAGTTTATTCAATGACTATTTCAAAA
TACAAAGTCTCTCTTTGTATAAAGTCATTCACTAATACTGACATTGGCTGATACTTCAGACTGGAGATTCTCGGTAATA
TTACTTTTTCTTGATAATTAATTTTGATTATAMGAGGATTTAATATCATGGAAATAAATTATGCAAATGAACTCAGACC
CTAGGTTCACTTCCCAGAACAAACCGTATTCTGAGAATACTTGTGGTGCCAAAATTTAGAGTGAAACCCCAGACTATTA
ATGATGCTCAAGTTACTTTACTCCAACACAATAAGTACTCAGTGATTTGTTACRGAAATTCAATTAAGTCTTCTCAAGT
ATTTTTTTTCTTTTCTTTTTTTTTTTTTAATTATACTTTAAGTTTTAGGGTACATGTGCACATTGTGCAGGTTAGATACA
TATGTATACATGTGCCATGCTGGTGCACTGCACCCACTAACTCGTCATCTAGCATTAGGTATATCTCCCAGTGCTATCC
CTCCCCCCTCCCCCCACCCCACAACAGTCCCCAGAGTGTGATATTCCCCTTCCTGTGTCCATGTGATCTCATTGTTCAA
TTCCCACCTATGAGTGAGAATATGCGGTGTTTGGTTTTTTGTTCTTGCGATAGTTTACTGAGAATGATGATTTCCAATT
TCATCCATGTCCCTACAAAGGACATGAACTCATCATTTAAGAAAAAGTCCAATAAAATATCAGTCACTATTTTTAGATC
TTCATTCTCAATGTTTGTAAAGCTAATACTAATATTAGATTAATGTAATTTTATCAATATTGATAATTACTTAGTATAC
ATTGTGAACTTTGTTTTTTGGATGTCATTTAAAGGGTTATTTTCATGAGTTCCTAAGAAATAATTTAGGCCTTTAAGGT
TATTTAACCCTTCAGTAGAAAATAGTTTCCTTGTTTAAGAAAATGATCTCCATCTAGTGGACAAATTTTTATATTACAG
TATACAAAGAAAAAATATTAAAGCCCCTAGAATATCTCATATCAAGCACTTCCTGACCTATTAATAAATGTTTTGGTTTT
AGTGCTAATATTATGGCTTAAAAGTTGTAAGATTTAAAAATATCATAACTATCTAAATGACTTAAGGTATTTAGCAATA
TTTGTTTCAAAACTTATAGTGGAGTGTTAAGACTTGCTTGATTTAATTGGAAAAATTATAATTAAAGAAAAAATTACTG
ATTTATACAAATTTGGTGTTTACTCAGTTGAACTGAAAAAAACTAAACCAAAACTCACACTTCTGTATCTCTTACATTT
CTGTTCATGCACAGGAAGGAGGGGGTATTTTCTTTTTTAAAGTGTAGCAATAAGAATATCTTGATATTAAAGGGAAATA
AACATAAACATTTCTACAGGCATTCACATTACTAGGTCCTCCTCATGCTGAAAAGCTGCCATGACTATCTTCTTAGAAG
AGAAATCTACTTTGCCAAACCCCCACTATTTAGAAGTTTTTAATGTCTTCCAGTTGTGTACTAAATACCTTCAAAAACC

Fig. 6.298

TTCTTAAATACTACTCTTCATGAAAACTTCTCAGATATCCCAGCCTGAGTTAGTCATTCATCCTTTATTTTTGTATCTT
AATGCACTCATATTAAGTGCTTAATAAATGCCTATTTAAGCATATCCAAGGAGAGTTTGCCAAAGATCCCTAATGTATG
TCTATTGAATGATTAGAGACCATCCTCCCCTTCCAGCCTTCCTGGGAATTGACAAGGTTTCACATACATATGTGCCTAT
CCTATTCTGGTGAAACAGATGTCCCCTGTTTGGGTGCCACATATATTTGTGGTTTATATAATCATGCAGTAGAGCTGGA
AGGACTTTAGGAACAATCGATGATTCAATGCAGTTAGCTCAGTGACTGGTCAATTAACTTTTCTAGGACCTGGTATCCT
CGTCTGTAAAGTGAGTCTGTTCGACTTGACAATCTCTCATTGTCCTTCCTGAACCAAATAAATATATCTATAAAGAGAC
ACAATTCTAAGAAAATTTTAAGTTGGAAAAACATATTTACAGCTGCTCAAGATAATGAGTTTTCCCTCTTCTGTTTATT
TGATGGATTATTTCGGAGCCACTGTTATTTGATCACAGATTCWAAAGTGATCCATGAAACATCTTCCAATCTTAGAGTC
ATAACTCTATTTATTAATGACTCCGATAAAGAAAATAAAGGAATGTTTTAAAATGAGCTAGTTAATAGTTTGAATAAAG
ATTCTAATGGGGAAAATATTAATGACAGCAAAACTTGAATTCACATGTTTATTTATTCTTTCAACAAGTTTTTCTTTAA
AACCACACACCTGCTGGGCTATCATAAGCTATCACCCTCCTCTCCTAAGAACACATGAAAGTTGACTTTATTTTAATAC
TGGTTGATGTTTCACTAGAAAGGTTCTTTGTGGAAAGTTTATCTAGATTATAAGGACTATGACGTTAAGAACTGTGTGT
GTAGATTTTTTCCCAGCTCTAAAATATGTATTGCTGAGCACAGTGCCTTTTATTCATTTAATCATTTACTCAAGACACT
TGGGCACAGTTTTCAATGTGCCAAGAATACGCTGAGTCTCCATTTGTAGAGAGCTCACAATCTAGGAATGGAGACCGGG
TGAAAAACATTTTCAATTCATTGTAAATTCTGTCATTAGGGAGTGGGAAAGTGTCTTGGGAGCGTAGAGAAAGGGCCTT
TCATAAAGCTCTGATGTACCAGGGTAGCCTTTCAGGTGCAGGCTAAGTCTCAAGGATGAGTGACAGTTAGGCAGGGGAA
AGGGGATTTGATTATTTAGGGGAGCAGGAGGTGAGGTGGTGATGGCCTGTGAGAAGGAGATAGTGCCTCAATATGAGTT
GAGCAAGAAGTACCCAATAGCTGAGGATGGCAAGTTGAGGCTGGGGGCAACTAATTGCAATTGAGAGCAGATGGTTAGA
CTGGCAGTCTGGCAAAGAAATTTTGACTTCATCCTGAGAGCAATGGTAAGTTACTGAAGGGTTTTAAACTGAAGAATGA
CACTGGAAAATGGATTCAAGACACTAATATAAAGGTTGTTATAATAATATAGGTGAAATTTGATGGAGACCTGAATTTA
AAATATTGGTAGTAGGGATGGAAGGAAGTGGGTACAATAGAAATTAATGCTTGGATGGATGTTATAGGGYAGGAGTGTG
GAGGGAGAAGCCCAGGTTTGGGAGAACAGCATTAGGCACAAAATGGGTATTTGTTGAATCGAATTCAAATATTTGATGA
ATTACTGTGTATTTGTTATTTTCCGAAAGGAATTTTGTACTTAGAAGATTATGTTTTGCAGAGTGTTTCCCTTTTAACT
GAAGTAGAGTTTGGAAAAACCTGTATCTTGTATCTGGTCAGTTAACAACAGTATCCAGGAGAACAAGAATGTGAAGTCA
ATGTGTTTTTCTTTTATGTATTTCAATATTATCATATTTTTATGGCAGAAATTAGCTGTAATTTTCATTCCTGCTAATT
CCACTGTCAGTTCCTCAGCTGACGCTAAATGCTTTTTGAAAATATGAACATGTGAATGTTCACAGCAACATAATTCCTT
CTCCTTCCTTTACAGTTTTGATGTGGACAATGGCACATCTGCGGGACGGAGTCCCTTGGATCCCATGACCAGCCCAGGA
TCCGGGCTAATTCTCCAAGCAAATTTTGTCCACAGTCAACGACGGGAGTCCTTCCTGTATCGATCCGACAGCGATTATG
ACCTCTCTCCAAAGTCTATGTCCCGGAACTCCTCCATTGCCAGTGATATGTAAGTACAAGGGCAGGCAAAGAGAGAGAA
AACCGAGTAAATTTATATCTAGAGCTGATGACATAATAAAACTAATGACTTTTGTTCAACTGTATCACTCTCCTCCAAT
GTAGAAAGAATATGAATAAAATTATACAAGCTAGAAATGAATGGTAGATTTAACCTGAGTGCACTGTCACTCTTGATTA
ACACACACACACACACACACACACACACACACACACGCATGTATTTATTTTCCCAGAAAATACTTTATAGGAAAACTGA
GAATTAAATTTTTAATGGAAACTAACACTTAAATCATTAGCTTATATTTATGTAGAGCCTGAGTTTTAGCTACCTAACT
ACATGGATATTTTCTAATATTTTGAAAAGCTTTCAACTCCATTGAAAAGTCCTGTGATAATAGACTGTATAGCATTTTG
AATATATTTCAATTAATGTATGTACAGATGTTAGCACTGGTTTGCCAGATCATTTAAGAAATCTTTGTGGACTTTGCC
AAAATTAAACCAACTTTTAAGGATCATGAGAGGCAAGCACAGAAAACATTAGACAGACTTGAATATCATTTAAGATATA
GTACAGCTTGAAAAACAATGAAAACTGACAAGCAGGTTTGCAGATCCTGTACCATCACTAGCTCATTTTCTCAGTGCAT
TTCATTCTTGTGGTAGTGTGCATGTTTTTCTACATAGGTCTTTATTCTCACTCAATACCTATACTATCATTCGTGGCAC
ATCTGCCTCTGTATAGAATCGATCTTCATCTTTCTCTCTTGGTCTATACATTTGTCCAATAACATTCACCATCTTTTCA
TGACACCCATCTCAAAAACTCATAACAGGCTGCAATTTATCTTATAAGAATTAGTCTGTATGGAACCCCTGAGTGTCTA
GTGTTATTCTTGCCATTCTAACAGAGCATCAGTTGTATTGCAATAGGTCTACATGGGGTTCTAGAAATGAAATTATATT
TCACTCATTTTTACAAACTATGGTTGCTATTTTAGCAGTTGTATTATTGACGTCTACCCTTCTTCATCTCTAAACAACT
TTCTATTCCTAGTGGCCCTATTTTTACATTATTTTTATCTCACTTCCTTAGATTTGAAATTCATGACACTTACTTATTC
ATTCACACATAATGAGAATGCTTCTTGAGCAAATATGGTGTATTTAAAGCTCTGAATCTGTGGAGCAGTGAGGTCTGGC
ATTTTAGACCATTGTAATAAAATATGGTGAGCACAATCCTTGAGGCATTTATCATGTACTGMAGGAACAGAGAGAGGAG
ATGGAGAGTTTTCCACCCAAGGGAAAGATACAGAAAATACCGGGCTAAGGGAACAACATTTACTAAATGTGAGGCATGG
AAAATTATGGCTGAACTAAGGAATGACAATCTGCTTGATGTGAATAGCGAAACCTGGCAAGAGAGAAGAAAATTTCAAA
TACAGTCTATGGGACCTGAGAGCCACAGAGGTTTTTAGCTGAGTTTTGGCATGATCATATTCTTGTTTTTATTGCATCT
TGATTACTCTATTGTTGAATGATTGCATAGCGAAGTCACTACAGGGAAGTATTTCATGTCGAAATTCACAGAAGTAAGG
CAGGCTAAATATGATGAAGACCTAAGTCAAGGGAGTGATGGCAGTGGAGCAAAGAGCTGGTTTAGATGCAAGAGGCTTA
TAGAATGGTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGAAGTATGTATGTATGTTGGGGGAC
AGCCAGTGGAGAAGGAGARTCAAAGAGAGTGCTGATTTTTGTCCATGAATGAGTACGTACATGGTGATGTACGTACATG
GTGATGAGGAACAAAGGGCAGAGAGTAGAAAACATGACAGATAACAGGTGATGAATTGGTTTGTACATGATAAGGCTAG
GGGAAACAAGACAACAGTTAAAGTACTGGACAGCAAACAGAAATAACAGTCCAGAGGACCAGGAGAAATAGAACAGTT
ACCTTCTATAATTACTAGGTTTTTGAATGACAGTTGAGTGGTGCGTTGTATTCAGGTAATAGCATTAGGAGCCCCTGGG
TTAAGGAGTGAATTGAAAGTGGAAATGTGAGCAAATGCAGGCATCTCTTTAAAAGGCTGATGGGTGGAGTAGGAAGAAA
GAACTAAGGCTGCCTGACAGAGAATTAGGTTCAAGCGGAATTTTTTTGAATTCAGGTTACTTGAGCTGAGGGAAGGCTC
CAGGAGATAGAAAGAGACTAAAAATTCAAGGGGAAAGAGGGTTTAAAGATGGAGCTGTAGTTGCTGACAAAAACATGAT
CATGAGCCAAAGTAAGGAGGCTATCCTTGGAAAAGTAGTAAATACCAGAACTGTATTCTTTAGGAAGGACAAAGAAGAC
CTGCCTTGGCAACATAGTGAGACCTTGTCCTTACTAAAATCCAAAAAAATAGCTGGGCATGGTGGCACATGCCTTTAG

Fig. 6.29

TCCCAGCTACTCTGGAGAGGTAGGAGGATTGGTTGAGCCTGGGAGTTCAGGGTTGCAGTGAGCTACGATCATGCCACTG
CAGTCCAGCCTGGGTGACAGAGGAAGACAAGACTGTGTCTGGAAAAAAAGAAAAAAAGAAGA GAGGAGAAGGAGAAG
AATAAGAGAGAAGAGAAGAAGGAGAAGGAGAAGAAGAGTAAAAGAAGGGAAATGTAAATTTAGAGATGGAGGAGTAAAA
TGTTAAGAGATATTAGCCATGAGTTCTCTAAACATTTTACTCCTCCATCTCCAGATGAATGAATGTAAAAGTAGAAGGT
ACAGCCATCAATAGCCAGAGGAGAGAGGGATGGGGCAGCTTGAGAAGAAAGGGAAAGGCTTAAAAAAGCCACTATGCAG
ATCAAAAAAAGGGAACAGGGTAAAGGTGAGTAGAATACTGACCAGCCCCATAGATAACAATAAACAATGTTAAATAGGCG
AATGACAGAATTGAAAGTCATCTAATGCAACTTCATCAAAGGTGAGTCAGGCTTGGTATTGACAAAAGAAAGAGGAAAA
CTCACAGTGAGTTAGTGGAGTCCATTTATGTAGTTATGTGTTCTACCTTTTTAAATTGTAGTAAACTGAGTTTGGGATA
GATTGTTTCTTTCATACATTCTACTCCAGTTAGTAAATATTAAATATATACATATATTTTATGAAAAGCTTATAGCATT
TCATATTTAAATATGAAATGCTTTTATTTCAAAATCAAACTTGCAAGGATACCTCATTTTGCTGTGTGCCTCAAGAGTT
CTTTATCTGATCAGACTCAGGTAGGAATGATGAGTTTAATCAGACCATGAGTCAACACTATATTTTGCTGAAAAGTAAT
GTGTWGATATGTTTAGCTTTCCATTCTCCTTGGATATTTACATTGGAGCAGTAAGATATTCCTTTGATACCAACTCCTA
GAAAGCATTCTTTCTACCAAGGAGATTAAGTTTCTGTGGAAGGAAAAGGAAATAGAATAAATAATAACTATTTCAACAT
TT[illegible]ATCTGACACGACACATATCTTCCACCATAAAGGACTGTGCC[illegible]TCTCTTAATTTGAATTCTCATATGGCCATGTGTA
AA[illegible]TTTAATTTTCTCACCTTACCTAGTTCACAATAATGCTATGAAGACTGTCTGATGTGTATAATTCAACTGCGCTTTA
TAGAGAATGATGTTATATATTTAATTACTTGATGATTTCTTATTAATAGTTCTAGTTAAGCTTTCCTATTGAGAAATTT
TCTTAGAAATTTCAAATACAAACAGTACCTAATGAGGATAGGTACCTAATGAAGGGTATTTAAAATGAAGGTTTGTGGT
TATCTATTTAATTGAACTGTTTTGGAAAACCTTTAAATACTCTTTAAGTTTAAATATAACTATTTACTCTATTGGGAAA
GTGAGAAGAAGGAAGATAATCCCTTCCTAGTAGATAGGATATCGTCATCTTATCCTCTATAAATAGAAACCAATGAAAT
AGCTGAAGAACAAAACAGATAAAGATGGTAGTAATAATAATCATAACATACATGGTGTGTGTATATCATCAACTTTCCC
AAGTATTTTCACACCAGCTATCTTATTTGATATACTCACAGTCCTTTTGATAGGGACATTGTTATGCCATTTTACAGGT
TAGAAAGCCAAAGTCCAATGAGCTTAATCTTTTGAAAAAAAAGCAAGCATTTTGATTATTTCTAGGAGCACATAATTTG
ATAATGCCATTGTAAACAAAGTACTTTATACTACTACAGCAAAAACTGCTGAGAAACAGAAGTAATTGTTGACCAAATT
CATTAAACCAATGAAATACATAGCAGTATCAAAATTTGATTAAGAATAAAATAAAAGCTCAAGGAGGTACAAAGTAAAT
ATGCAGCCAACTCTTAGAGAATGTATACAAGTATATAGCACTAGGCTAAATTCAGAATCTAAAAAATTAGCTCATATAA
GGCAGAAGAGAAGTTCCTGACCACTTCTGCTCAGAGACCGTCACACAATTTGTTAAATATAGATGATGCAGTAGCAACT
TAATTCTTAAGAAAAGTAAGAAAAAGAAAAATGTTAAGTATTAGCATGAGTCTAGTAAATAAATACATGAAAATAAACT
TGCATTACCATTAATAGTAAAAATTTTTTATAACAGTAGAAACAACTAGATAACAAAAGGCTGGTTGCCCAAGTGGTGT
CATGAAGTAACATGAAGAAAATTACAGCGTAAATAGACAATATTTTTGTCATCTTAATATTTCAGCATCTGAATAACAA
TCACTTCTGTGTTTTCACATCATCCAGTAATATAGTATCTGTATTTGGAAACACATAAAGTTATGATACATTGCAAAGA
TTAAGAGGAGAATTAGCAATGACAAGATAAGTAGAATTAAGTCACAAAACTATGAATTTATTAAGTATAAGTTACCTGT
CAAACTACTTAAGTTTTAAGAAATACTCAATTCACCTGGATAACTAATCCTCTATTCCCCATCCTCTGTTAAATTAACA
CCAACACATAGAATGCAAAGATGATCCAATCGGCTCTTCACTCACATTCATATACATTGCTTCTACACACAGAATATGG
GGTGGGGTGAATGCATTCAGAGGGCCAGTGACGAGGAAGTGAGTAGATTTGATATACCATAAAAAGCTGGGGCATATTT
GGGAATCTAGCTAAGTTATCCCCAGGCACTATACAGATATCTCAGACCTCACTGATCAGGCCTTCGGGGTGCCCCATTG
GGGCATTTTCTCAGCTAGTAGATAATACTCTCCCTACCTCCCATGTCAAACTACTGTCCTTTCTTTAGCAATTAACAAG
TCCCTCACCACTTCTTGGGCCTCTAATGTGTGTTTTCAGTCACAGCCACTCCTCTCTACTACTTTTGCCTGCTAAGTAT
AAGAGTAGTATTGCTTCCAGTCCTGAGTTTGAAAAAGGAAGAAGAATTCCCTTTATGTCAATTTGTATCTTTTATTCCA
GATTATTAATCTTCCCTGGTCTCACTAGGAAGAATATAAATAAAAAGACACGTTGCATTACAAAGGTTCTAATTCTCAC
TGGATCTACATGAAAAGTTTGTAGTCATCTCTTACCTAGATTGCAAGATAATATTACACTAATGAACATTTCAAAAGCA
TATCAATTTGTTATCTTGAAAGCTTTCTTCCATTAACCACAGAAAGAAAGCTACCATGGCCAAATCATCTCTTCCCCAG
TTCTGGGTTTTTCCCAGCTGGGGAGGTATCCTCACCCCTCACCCTGTGGTGTAGGAGTGATGGGACTAGGGCCAGAGTT
CTCAAAATGTGTCCTGAGGCAACAGAGGGAATGTACATGGGTGCAAGCGTTATTTTAAATGTTCAAGAAAAACACGAAA
ACATCTGTCAACCACCTGGAAAACTAATAGCTTGGAATAGTTCCCAGTTTCCAATTAAGACCATGATATTCCTTTCTGT
GACACCATATCTTTGCAAAATTGGGTTTTCAGCAGTTGCTGGATAAAAATGAAGTGCTGAGCAGAAATCAATGTGCAAC
AAAAAATAAGGGAGGCAATGTCCAATCTCATTCCAAAATGAGAAATTGACATAGTGCTCAGTGGGTGCTAAATTGTTAG
AACAAAACCTTATTAAGTTATTTGGACTTAACTATTTAATAATTGGAACTATTATTTATTTTGGCCAATGTGTTGCTGT
TATTAAAAAATTGAGATATTAAGGGCACCATGTACTGAGAAAGTCTGAAAATATTTGGATTAGTTGTTTATTCATATCT
GAAGAATTAGAGCTAAATCAGGCTAGGCATGGTGGCTCACATCTGTAATCCTGGCAATTTGGGAGGCCAAGGCAGGCAG
ATGGCTTGAGCTGAGGAGTTTGAGACCAACTTGGGCAACATGGTGAAACCCTGTCTCTACAAAAAATACAAAAATTTGC
TGGGCATGGTGGTGGGCGCCTGTAGTCTCAGCTACTTGGGAGGCTGAAGCAGGAGGATCACTTGAACCCAGGATGTTGA
GGTTGTAGTGAGCCACGATTGAGCCACTGCACTCCAGCCTGGATGACAGAGTGAGACCCTGCCTCAAGACAAAAAAAAA
TGATTAAAGATAAATCAGATCTCTATGTGAGACTATTTGAGAGAATTTTGTTAGGAGTTAAAAAAATAACAGTTTCCAA
GCTGTGAAGTATCTGATGTGCTCTAGAGTAGAGAATTTATCTTTTTCTTAATTCTGTTAGGATCCCAGGTAGCCAAAAT
CTTTTTTTATAAAATGTGATATTATTTTGGTAATGACCTAGATAGACCAGGCTTTTTCTTCCATTGCTGTGTGCTGGCC
ACTGTTACTAGTATTATTCGGAGTGTTGATGCAGGCATTAATACTAGCTATTAAATCTCAAGAAGTTTATTGGCAAAAT
ATGCTAAGGTCATCTGCTACTAGAATACCTTTTTACTATCTTTTTGTTTAAAAATTCTGCTTTATTTGGTGCCATTTAT
TCAATCACTTAAGTCATTTTATTTCTGATTTAAAAAAATGGAGTTTCATGAATTGTAAAATAAGTCTTATAAATTAGC
TAAACAWGTTTCTTCAATCCTTGAACTGGGGGATTTAAAATATTAGCTGAATAGGCATTTTATATTCCTAATCTCATAC
TTTCAAAAAAATCATAAAAATGAAATCCTGATGTTTAGACATTTTAAATGGTAATGTTTTTAATGCCACAGTATAAAAA

Fig. 6.300

TAAAGCATTGATTTTAATGCACTGCTACAGTGAGATGGTGCCAGCACCTCTAAGTATCATTGCCAGTGCTCTAACCTTT
AAAATAACGAATTAATTGAGTTATATGTAGTAATATATCTTGGCTATTACTGCCAAAGTAATAGATATATACTGAAGTC
TTAGGAGAGATAGAGGGATAAATGTTAGTYATAAAAAGTTGTTAAAGCAGAGGGAAAAAGAAGTGAAAACTGACCAAAC
ATATACGTAATTCATTGTTTCTATGACAAGCCTGCTGCAATTCGAACTCTAGGACTTTGTGCTAATATTTAGCATACCA
TTTTATTTTCTAGATTTCCTTTATACTCACTATGTTCCTCAGTATTTGCACTCACTTCTTTTGTTTGTTTGTTTTGAGA
TAGAGTCTCACTCTGTTGCGCAGGTTGGAGTGCAGTGGCACAATCTCAGCTCACTGCATCCTCCGCCTCCCAGGTTCAA
GCGATTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGATTACAGGTACCTGCCACCGTGCCTGGCTGATTGTGTTTTTTTT
TTTACTTTTAGTAGAGATGGGGTTTCACCATGTTGACCAGGCTGGGCTCGAACTCCTGACCTCAAGTGATCCTCCCACC
TTGGCCTCCCAAAGTGCTGGGATTACAGACTGAACTCACTTTTAAATCTTTTAAATGTGAAAAAAAAAACTCTAAAAAT
CATGTGAGTTTTTCTCACTCCTGTATAAAAGAGAAAGAGTGTGAAGGTGAATTATTTAAACTTATAAATAATGATTATA
TAATTATGCTTATACATCAGATTTAATACATTTCAAAGGATAATATCTACTTTCTTTAAAAAAAAATGCAGGGAGAAGT
GGTAGTTTAATAACAAGAGCAATTATTCCACAATCCTATGAGACACTGAATTCCTGCCAGAAGAAAGTAAACTCAGAAT
TGGCCTCAGTCAAGGAAGATTAGCCTATTTTTCAGTGCATACCAAAAGAATGCAATCTCTAAGAGCACATTATGTGTGA
AATAAACTAAAATAAGGAAAGTTTGAAGAACATTTTGAAAGAAAAAAACTAGTCCAGTAACCTGGATAGTGCTCTCAAT
GAAACACGGCCCCTAGATGAAGGACCCATAGTTGAAAATTACTGATTCTTCCTGCCTCTTGAAATTCCAAGAGGCAAAT
GGCCATTACAGGAGAGATATTGGTTCACCCAGTTGTGGATATTGTACCTAGAGGTACACTAGTGTACTCTCACTTTATC
TCAACCCTCTTCCCTCTGTATATTAAAGAAGACTAAAATCAAAACCATGCTCCAGTGTATTGTAAAATAGAAATATTTT
GAACTTTAATTTTTTTTTCTTTTCTTTTGAGACAGAGTCTCACTCTATTATTGCCCAGGCTGGAGTGCAGCAGTGTAAT
CACAGCTCACTGCAGCCTTGAGCTCTTGGGCTCAAGTGATTCTCCCACCTCAGTCTCCCTAGTAGCCCAAACACAGGGG
TATGCTACCACACCCGGCTAATTTTTTTTAATTTTTAGCAGAAATGAGGTCTTGCTATGTTGCCCAGGTTGGTCTCGAA
TTCCTGAGCTCAAGCAATACTCCTGCTTTGGCTTCCCAAAGTGCTGAAATTACAGGCAAGAGCCACTATGCACAGCCTG
AACTTTAAGTCTTGACGGTGGGGCATATGGTGGCAGGCTGGGAAGAAGAAGAAAGTTGACTTCTATTGGAGATGACCAA
TACGTGTTTTCCACCACATTCTAAATAAAGGTGTGTATTAATTGATGTGCATTTTTGAATGAGTATCACTGTTTTACTC
GTTTGGAAAATAACAGTAGCACCTACTCCATGCCAGGGTATCATTTGAAGACACCATAGATCCATGAAAGTAAGACAAA
AAAATTGTTTGGAGCATGCATTCTTGTCTTTATTTAATTTTTAAAAATTCTTGATACAAAAGGAGATGTTTCCAGCCAA
CACTGAGATTCCCATATGAATACTTGTTTCACTTACACATCAATCATTTTAAATATTTACTTTTGCTTGTCAGTCTTA
GCTTCTTAATGAATTGTTCTCAATGTCTCCTTTACTGTTTTCTGAGCCATATAAGGAAAAACAGTCACACTGCTGGAAC
ATTTATGTGATGTGTTTCTTGAGATAAGATATTCCAGGGAGTATTACTAAATCATACTGTCTAAGCCCTTGCAATATGA
ATCATCTAAAGATGTGCTTCTATAAATAAACAGAAAGAAAGCATCAAGCAGACCCATGGTTTTTCTTTAGAAAACCAAG
TAAGGAATATCAACCACTGGGCTTTGCTTTCAGATTCCTGGTAATCTGTGGTATGATTCACACCAGGTTCACAGAGGAA
ACAACCCCAATTATTCCGTCTGCCTACTGCAGCATCTCCTAGGCTTTGTGTCCACCTACGGTTAATTGCCTTGAGACTT
TATGGTTTTTCCTAACCTTGGGTCAAGAAAAATTTGCTGACATTGAATACTGGAAAGTTGTATCTAAACATATATAATG
TGTCAATTCCTGCAACCCTCTCTTTAAGACGCAGGGAACTTCAGAGCAGAAAGAAAAAGAATAACTGCTCACCCCTCAA
CAAATGTGGAAGGTTGTGATGTGACAAGAAATCATTTCACCAGTTCAGTAAATGATGTTGTCTCCCAATAAATGTCATG
AATGATCCCAAGTCCAAAATTTTTTAACTCATTGTTTCACTCCCAAGGGAGAACAAAGCTACATGCAGATCTCATATTT
CCATGTTTCAAAATTCATTTTTTCTTTGGTGCTTACAGAACTTCAAATTGAATTTGTTATAACCACCAAGATCAGTTTT
GTTTTGTGGATTGGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTTTAGCTAGTGGATAGCATA
TTAGACAGCACCGAGAGTCTTGCAGAATATTCTGTTGCAGAAATAGAATGTTGCAGAAATATTCTATTGGACAGTGCTG
TTCTAGAGTCTAAAACATTTACTTCTATGTGCCTTCAGAATAGTCTAAATCCATTTGAGCATACAGAAAGCGGCATGGT
AAAAACAAAACAGTATTTGAAGGCCTGGGCTCAAATCCAGCTACACTGAACATTTCCATGCCTTGGGATTTTATGACCC
AGTAAAATTTCTGGGACACTGACCTAGGGTTACTAACTCCTTATTTGCCAGGTAAAGAACATTAACAAGGAATTACCC
ATCAATATATATGTTAATTTTATTTTTTAAAGACATTTTCACTTCAGTGAAAAAGAAAGAGCATAATCTCAGAATAAAA
GAATTTTCCAAAGGAATAYGTATAGTTTAAAAAAAAAATCTCACTGCATGGTCCATGTACACTCTGACTTTGACAAGGA
CCACTGAGCATTCTGTTGGGCAAGTACCAGATCTTAGAGTGGCATTTGGAAACCACTGAGTTCTGTCAGCTTGTCAAGG
GCATGACTGCCAATGAGTAACTTAAGTTGTCAGGGCCTAGTTCCTTATGTTAGAATGGGAATATGAGCATCCATTTAAT
GCAGAGTTGTCAGGATTAAATTCAGCATGTTGGTAGAACACCGTGTCTGGTGCCTAGTAGGCATTCATAAAACACATTG
CTCTCCTCTCTGTTTGATCAAGGGCTTCCTTTTAATCTATTGAATCTTTTCACCACATGCAGACCTTTAAAATTGTTGC
ACTAGTTGACCAAAAATCTTTTCCCTAGGATCCCATTCTGGTGAAAAACCAAAAGGGCAGGGCCACTGGCATTAAGAAC
AAGCCTGCCAATAAGATAAACTGTGAAAGAAGATCCCGTTCCTAGAACACAAAGTGAGAGCACTTGTGAATCCCTGCCC
ATGTACTCAACTCTTTCGCTGTCTTTCTTCCCTCCATGGAAGTCAGACTCTCAGCTTTGTACTCAAACCTTCTGGTGAT
AATTTGGGACATCAGCCGTCCTAGAAAAGTCTCTCTATTGTATTGGTTTTTRTTAAACAAAATAACCTAATATGCTTAG
TGAATATGTCTACACACATGTGCTAAACATTTGTTTAATTATTTAACTTGGAAAATTTTGGTGTATCATTTCTAACAGA
GATAGTCTTTGTGCCATCATATAACTAACAAATTTGAAGGCATTCATTGGCATCATGTATTTTCTCTAATGAGTCCTAA
ATTGTTTTCTCATGACAAATAAAGAGATTCCATTTTAGACTAGATTATTTTTTGCTTATGTTGCRTAAACTTCAGTCCC
ATCTGCTTTATCATCAGTGCCTGTCCTCCACAAGTGATATGAGCACACATGAGCCAAAAATTAAGGATTTTTGGTTGAA
AGATTTTTTTTTTTTTTTTGGTCAAAGATGGGGCCGGGCTCTAATTCTTGTTTTAAATTTATTTTTCATCAACAAATAA
CAAATTATATGCATTTATTATATACAAGGTAATATTTTGATATATGTATACATTGTGGAATGATTAAATCAAGCAATTA
ACAGGTCCATCACCTAACAATTTATCATTTTTTGTGATGAGTACATTTAAAAKCTACTCTCAGCAATTTTCAGGTATAC
TATGCATGATTATTAATTATAGTCACCAGCCTGTACAGTAGATCTCTTGAAATTGTTTCTCCTTCTAACTGAAACTTTG
TACCCTTTCACCAACATCTCCCATTCCACATCCTCCCATTCTCCCCCAGGCCCTGCTCCAGTCCCTGGGAACAACTGTT

Fig. 6.301

CTACTCTCTGCTTCTATAAGTTTGATTTTGTTTTTAGATTCCACATATGTGTGAGATCACATGGTATTTATCTTTCTTG
CCTGGCTTATTTCACTAAGCATAATGTATTCTAGGAACATCCATATTGTCATAAATGGAAGGATATCCCCTTTTTAAGC
CTGAGTAGGATTCTAGTGTGTGTGTGTGTGTGTGTRTATAACATTTTCTTTATTCATCTGTTGTTAGACACTTAAGTTG
ATTCCATATTTTGGCTATTGTGATTAATGCTGCACCAAACATGGGAGTGCAGGTATCTCTTTGACATACTGATTTCATT
TTCTTTGGATATATACCCAGAAGTAGAATTGCTGGATCATATGGTAGTTTTATCCTTAATTTTTTGAAGACCCTTCATA
CTGTTTTCCATAGTGACTGTACTAGTTTACATTCCCACCAACAGTGTAAAAAGGCTTCCTTTTCTCCATGTCTTCACCA
ACATTTGTTACCTTTTTTTGATTAAAAAAAAACTATTATAGGTGTCAGGTGATATCTCATCATGGTTTTAATTTGCATT
TCACTTAAGATTAGTGATGTTGAGCACTTTTACATATACCTGTTGACCTTTTTTTGTAGGTCTTGTTTTGATTTTAATT
TTTTTGTAGAGAAGGTGTCTCACGATGTTGCCCAAGCTGGTTTCAAACTCCTGGGCTTAAGCTATCCTGCTACCTCAGC
CTCCTAAGGTGCTGGGATTACAGGTGTAAGCCACTGTGTCAGGCCATTGTTTTGAGAAAGACCTATTCAGGTTTTTTGC
CCATTTTAAAATCAGGTTATTTGTTTTTTTGCCATTGAGTTGTTTCTTAATTCTTAAAATATTAATAAGATGTGAGCAA
ACAGTTTAAATTTCAGAAAACTAAATATCTTTGAAGGTCACTGTACTAGTCTGTTCTCATGCTGCTGATAAAGACATAT
CTGAGACTGGGCAATTTACAAAAGGAAGAGGTTTAACTGGACTCAGAGTTCCACGTGGCTGGGGAGGCCTCACAATCAT
GGTGGAAGGCGAGGAGGAGCAATTCACATCTTATGTGGATGGCAACAGGCAAAGAGAGAGAGCTTGAGCAGGGGACCTC
CTCTTTTTAAAAAATTAGATCTCATAAGACTCATTCACTACTATGAGAACAACGCAGGAAAGACCAGACCCCCTAATTC
AGTCATCTCCCACCAGGCTCCTCTCAGGACATGTGGAAGTTGTCGGAGTTAAAATTCAAGATGAGAACCCCATCTCAAA
AAAAAAAAAATTCTAACCTGCTTTAAGAAATAAAAATAGTGGTTTGCACTTGTAATTCCAACTGCTTGGGAGGCTGAAGT
GAGAGGATCACTTGAGTCCAGGAGCTTGAGGCTGCAGTCAGCTGTGAATTGTGCCACTGCACTCTAGCCTGGGCAACAG
AGTGAGACCCCACATCTCTTTAAAATTTTTTCAAAATATTTAAAATGATCAAAACGGGCGAGGCGCTGTGGATCATGCC
TGTAATCCCAGCACTTTGGGAGGCCGAGGCAGGTGGATCACGACGTCAGGAGATCGAGACCATCCTGGCTAACACGGTG
AAATCCTGTCTCTACTAAAAATACAAAAAAATTAGCTGGGCAYGGTGGCAGGCGCCTGTAGTCCCAGCTACTCCAGAGG
CTGAGGCAGGAGAATGGCGTGAACCCGGGAGGCGGAGCTTGCAGTGAGCCGAGATTGCAGCCACTGCATTCCAGCCTGG
GCGACAGAGTGAGACTCCATCTCAGAAAAAAAAAAAAAAAAAAAAAATGATCAAAACACCAGAAAAGCTGCATACACAGA
TATACAAACAGGTGGCCTGAGTTTGGCGTTGAAAAGTTTCAATTTGGAAGATGTTACCTCACACAATACTAGACAGCTT
TAATGTTACTCATATATTAATTTACATTTTCTTTGATTCTCAGTAAAAGGTTGCTGGACATTCTTGCCAAATTGAAAGT
TTTGGTAGTTGTGATTTTTAATACAAGTTTTTGTGTTAAATAGATTATTTTAATTCTAAGTGGCAATAGCTTCAAAGAG
GAAAAGCACATTCACTTGTAACTGAAGTTGGCTTTATTATATTAGGAACTTTATTCCCTAGGGTTTCATAAATAGATGT
ACTGCTTAATTTATTTTGACTTAAATGGAGCTAGTTTCAAATTAAAAGGCCAAGCAATACAGAGGATCCATATCCTCAA
GTATGTCTAATACCAAGGAAACAGTTTTTATGTATTTTTGGTATTGTTTTATTTACTATATAGATTACTTAGAGTTTAT
AAAAAAATCTAATGCCTCCTTTATAAGTAATTTTAAATCATTCATTATATTCTTAAATTTATAATTTGTCAGAGTGAAC
ATTATTTTTGGAAAAACAAATCATCTCTTTTAAACGCTATATGGAAAAAATAATTTGGTTTTGCAAAATTTTCTTGGTA
GTCACATTTTACAGAATTTTTGTTGTCTGAAATTAGAGTTTCATGATTTTAATTTAAGCAGGTAGCAATATAAAATACT
TAACATTCCCATGAATTACCTGTGCAGCCCAGTTTCTCATGTAGCATTTTAATATTTACCTTTGTCTTATGTATATTTA
ATTAAAATAAGCATGTTTCCTTTAATAAGTAGCTTTTTAAAAATGAATGAATGATAAATGAACTGAAATTCGTCTGAAA
AACCCATATGATTATTTTTTAATTTATTTAAAAATAGAATCAATGCTTACATTTTAATACATTGGATTCACATAACTT
GAAAAATTTTAGAGATTACCGAATATAGATTGGAATCATTAACAATATTTTAAAAGAATAAAGGCATGTATAATTTTTA
TGGTTCATTAATGTTTAATGCTAAAAGCAAGATATACAGTTGAATATACACTATGACTCTAATTCTATAAGGAAGTATG
TAGTCCATAATAGTCACATACTATATTGCATACATGTGCTCACATACATGCAGTGGGAAAATGTTATCAATAGTTATCT
TTGAATGGTTCTTTAAGTTGTTCTATATCTCCCAAAGTATGTATATGTATGCATGTACTTCATATGTGTGTATGTATAT
ATATACATACACATATGTATGTATACGTGTATCTATACATACACATATGTATGTATACGTGTATCTATACATACACATA
TGTATGTATACGTGTATCTGTACATACACGTGTATGTATACGTGTAKCTGTACATACACGTGTATGTATACGTGTAGCT
GTACATACACGTGTATGTATACGTGTAGCTGTACATACACGTGTATGTATACGTGTAGCTGTACATACACGTGTATGTA
TACGTGTAGCTGTACATACACGTGTATGTATACGTGTAGCTGTACATACACGTGTATGTATACGTGTAGCTGTACATAC
ACGTGTATGTATACGTGTAGCTGTACATACACGTGTATGTATACGTGTAGCTGTACATACACGTGTATGTATACGTGTA
GCTGTACATACACGTGTATGTATACGTGTAGCTGTACATACACATATGTATGTATACTTGTAGCTGTACATACACATAT
GTATGTATACGTGTAGCTGTACATACACATATGTATGTATACATACACGTGTATCTATACATACACGTGTATGTATACA
TATATACATACACGTGTATACTTATATATACATATATACGTGTACATACATGTATGTCTACATGCATGTATGTGTGTGCAT
ACATGTATGTCTACATACATGTATGTGTGCATACGTGTGTGTACATGCATGTGTGTACATACGTGTGTGTGCATGTATG
TATATGTGCATGTATGTATGTTGCATGCATGTATGCATGTGTATATATGTATGTATGTGCCTGTATGTATACATGTATG
TATATATGTATATATGTGCCTGTGTGTATATATACATGCATATATGTATATATGTACATGTGTATATAGATGTATGTAT
ATATGTACATGTATGTATATATACATATACACATACACACACATAAAGATCAAGTAGGTTACATTATATGTTTGTTTTA
TATGTCCATACTTCTATGAAGATGGGTCTAGAGAGTTGTGAGTAGACGTGGTCCTCCTATAGCTAATCCTTGGGTGTTG
TCAAATAGTCTAGGCTCCCAGAAATATTTTTATATTCATTTTAAAATTAGAACATACTTGTTTCTCTATAATTCTAAAA
GAAGTTGTCAAGGGTGAATTGATAGATGGATGATAGTTTTTAGGCTGAGGAAAGAAAGATACTAAGATTTCAAAATTAT
CAAAATCTTGGACTTTAAAATATATTTCAAAAATATTATTTTAATTTTCTATATGTTTATCAATTTCCTAATCCTATTG
ACAAACTTCAGAGGAGAATATCTTTCTAGTAAGAGTGAGTGAAGCACAGAAGATGAAAAAAGTTTGCACAAGATTCCAT
TCGGCCAGCGCGGTGGTGCACACCTGTAATCCTAGGCACCCCATAGACTGAGACAGGAAGATCACTTCAGCCCAGGAGT
TCAAGGCCAGTCTGGGCAACATAGCAAACCTCCATGCCATTGAAAAAAAAAAAAAAAAGGATTAGATTCAAACGTAAGCC
CCAGCCTGTGACTCCTTCACAGTGCTAGTTCATGCATTCATTTGTCATGCTAAAATTTGCAATGTGTGATATTCAAAAG
CAGTGGGTCTTACATGGCCACTAATGCTTTAAATATAGTAGGATTAGGGGTCTTTGCTCCATAAAGTAAAAACTTTCTT

Fig. 6.302

CTAATTAACTGTATCTCCTTTTCCTTATGATTTCGTAATAGTAAAACAGATAAAGATTGCCACCTAGTGTGTTTAAGAT
TTCAACCAATCATGAAATGAACTTCTATAGGAAATTATATTTCAGGTGCTGATGTTGGTTGAACTTATTTTTTTAAGA
TGACAACAGGCTTTTTCATTTTTAAGTACTTGAACCATATATGGATCTCAACAAAGTCACCATAAGAGTGTGGGCATTT
GGATTTCTTGCTTTTAGTTTCTTGCTTGTTTCTGTTTCCTTATTACAGAAAGAAAAAGGGTAGAAAATAACGTGATAAA
TAATACAGAAGTAGAAGAAGGATGGGAGGGGGAATAGAGAATAGAAGTTCCTGACTCTACTGTCATTTCTCTTGTGAGA
AAAAAAAAGACAATAGTATACTGTTGAGCCCTGTATTCTCCTGCTTTCAACAGCGCTGGCTCAGGACTCAGCAAGTCTT
TCTCTTTGGGAGAGACAAGGCTCGCCAGGACTAGTGAAGATGACTCTGGTTCACTTCCTGGTAACCAGGGAAGGTGACA
GAGCATGTGGCACCTCCTTGGACATCATGAAATTTAAAACCAATGTGACACTGACTCCCACAGTGACCTACAGTGGCTC
ATCCTGGCTGTTCTAGAAGTTTCTGCACTTGCATTCTGCTGTGACTGTTACCTTGGTACCAATCTCATCTCTCACATAC
ATACATATGTGCATACATACATACATGTATACATGTGTGCATACATACATACATATAGACACGCAGTGTCAAAATGACT
TTTTTTCTGAGCCTTCCTATCCCTCATTCATTCTCCGCCTGTCCTCCATGAACACTCCAGTTCTTTTTTTAAAAGAGC
TGTATTTTCCTTAAAACAGATCACAGCTGTTTTTTGTTAAGGGTTGTTGTTGTTATAATTGTTTTATTTAAATGAAAG
ACAGTATTGCATCATCCTCACCCAAAATTCACATTACCAGGCGGTACAATTTCAAAATGTCCAGGCGATATTCACTGTG
TGACTTTGAATCTAGCTTTTCAGTCACTTTATAGAGACCCTAATAGTCTCTTCCCATCTCAGAAGAGACTCAGAAAAAT
ATTTAGCCAAGTAGGCCTAGGAAGCCCCAATTTATTACATTGTATTGTAATCCCTCCCAGCCCCACTTTACGTGGCAAG
GCGCTTTAAAAAGCTTCTGTGGGTAAAGTTGTTCAGGTGCAAGATTTCAGAATTATTTTATTTCATAGGATTTTTTTGA
GCATATGTGATTATTCAGTTCATTAAAACCCACACATACTTTAAACCAAATCATATTCACAAAGTGAATCTTCTGTTGA
TCTTAACTACCAGATCTGTTTTTAAATGATTATAAGCAAAGTGTAAGACACAATTCAAAGATATGTTTGTATTATATTT
ATTTTCTTCTAACCACAAATAAAAATAGGTTTTACTTGCCTTATTCTCCTAGTGACAGTATGTCTGAAAAGATCTGTTT
TAATATTGAGTTGAGGACTTAGACAAAGATTTTAAAATTATATGTTAGGTATATATTCAAAGATAATTTAAGCATGACA
TACTTTTGAAAATAAATGGATAGGCTATAACCTGCCGTTTATCGAGGACATCTGCCACTGAAATGCTAGGTATCATTTT
ACTGTTACTAAAATGAGACCATCTTGAGATATTTGGCAGAAACAATTTCTGGGCAATTTATTAAAAAGTAATATATTTC
CTTCACTAAAATGATAACTGTCTTTATGCTTTCATAGGGAAAAAAGGCTGGTAAATTATCATAAATATTGTAAAGTGTA
TTACTTATAATACTTATAAAGGAGATACAACCAAAGAGAAAATTAAATGTTTTAATAAATATGCAACCCTTTTGAGTTT
TGAAAGATTCAAATCCACTGCAATCTATATAAAAAATTAGGAGACATATTTCCATGGATTCATTTCAGATTGATGATGT
GCCTTGTCAAGATGACTTAGTCCTGAAAAAAATAAACTTTATAGTAGGTCAATTATAAAGAATAAAATGAAAGAAGAGA
CTATAGCTTGGGACAATAAGAAGATGTCATATTATTTTAATTTTGGTTATCTGAACTGCCTCTCATCCATTTTACAATA
CAATGTCTTCAGCTTGGCCATGCACTGAAGCAGATGAATAGTTTATCAGACTGGCAAATCAAGTCGGCATAGGTGGCAT
GTCTTTTCTCCTTGTGTAATATACCTCCCATTATGGAATTTTTAATAACATTTTTTAATGTCAGAAACCATTGAACTAT
CTTGAATGCAATATATGTAGTATATACACCTATTGAAAATGTTTTTTGTCTTCGGACTTCTAACACACTACACAGTTTA
CTGATTTGTCCACCACTCCCAAGAATGTTTGGCTTCAAATGAACTCTAAAGGTGCCTTTATGTGTGTAGAAATTTGTCA
AATGCTGAAGTGTTTAGCTCTGGATTTTGTCTTCATGCTTTTTAAACACTGGTGTATCTGTAAATATTTCTCAGTTGTT
TTGTGAGAGTTAGGCTACTGTTTCAAAATAAGTACATAAGAGAAATTGCAGCCCTATATTTACCTATATGACACAGCCA
GAAGGGAAAGTCAGAATGATGGGCCAAGGAAGAAATGTAGCTGGCCAACCCTGGCATCACTTTGTAATTTGCATTTATT
GGGCCATTTTCCTAGAGCTTTATTTTTAATCTTTTTAAGCTGTTCCATAGGAATCAGCCAATGCATATCACAAAAGGGG
ACCATTCCAGGTATGGCTGTGCAGCTTACTACCTGCGTGTCTTTGTGTTAAATCTCTTAATCAATTTGAGCTACAATTT
TCTCATCTGAAAAATGGGAGTAATGTCACCTACCTTGCAACATTGTTGTAACAGCTGATGATTGTATATAAAATACACT
TGCTGTGATAACATTCTTTTTACTTTTGTAAATGCTTGAAATTTTCATATCTTTTTTTCCCCAGAACTTTTTCTTTCCC
CCAGAGCTTTTAATGCTGTCATCGTCCCTCTCTCTCTCTCTCTCAACTACCACTGATTTAGTTAGGTCCTCATCTCTT
CTTTTCTCTACACTGGTCTCCCTGCTTCCATTTTTGCCCCTTTAAAGCCCTCAATCTTTTATAGACCTGTCACAGGGTC
TCAAGAGTCCTTCTTAGCGAAGTATCAGTTTTCTGAGTCTTTGCAATTTCCTGACTGCATAGGAAAGCAAAAATCATTA
TGATTTAAAAGGTTTTACTACTGCTGCTAATTATTATTATAGAAATGTTTATTGAACATTTACTGTGTGGTAAGCACAT
TTTTCAGCACTTAACATTATTAATTTATTGAATCCCAAAACATCACTCTATGTATGTGCTGTTATCTCCATTTTACAGA
TGAAGAGGCCAAGGGAAAGTGAAGTTTAATAACTTGCACAATTTCACACACCTAGTATGTGGCAGAGCTGAAATTCCAA
CCCAAACTTCCATCAGAGAGTAAAATCCAAGTTCTTGTACATTTCATACAAGGGCTCTGTGATCTGCTGCCTGGCTCGT
TACCACCCATGATTCTGAATTTCCTGCCTTCCATGGCATTCTCTAGAATCACCGAGCTTCTCGTTGCAGCTCTGTATCT
GCTTCTTTCTCATCTAGGCAGCTGCTCTGCCTCCTTGGCTTCATCCCTCTCTGCTGGCTCCCACGGGCTCAATGGCCTC
CTTGCCACTTCAGTGCACCAGGCCTGCTCCTACCCTGGGCCATTGTTCTAGGAAAGAGCCTTTCTGGGCTTGACCTCAG
AAGACCTTTTTTTTTTGAGAGTCAAGGTAAATTATGTAAATTATTTATTGATGACAGAAGAACACTATCTTAGTCCAGT
TTCTGTTGCTATAACAGAATAGCATAGACAGGGTAATTTATATAGAAAAGAAGTTTATATCTTACAGTTCTAGAGGCTG
GGTAGTTCAAGGACATGGCATCAGCATCTGATTAGGATATTTGGGATGCATCATCCCAAACAATGGAAAAATGGAAGGG
CAAGTGAGCACATGCAAAAGAGAAAACATGAGGGGCTGGGCTCACTTTATAACAACCCACTCTTATGATAACTAACCCC
CTCCCACCATAACAGCATTAATTCATTCATGAGTGTGAAGCCCTCCTGACCTAATTACTTCTCACAGGCCCCCACCTCT
TAATACTGTTGCAATGGCAATTAAACATCAACATGGGAAAATACCTTTTTCAATTGACATCCTGCCTCTACCACTTATT
AGTTTTTAGACCTTATGCCCTCTCTGAACCTCAGTTGCCTCTTCTATAAAATGATCATAAAACCCAATGTCCTACCTTC
TTAGAGTTCTAGAGTTCTATGAATAATCTCTACAAAGAGCAGGTGCCCCTTGAAAAACATGATTCTGGAACTAAGGGGG
TGTAAAATAACACATGCTTCCTTTACATTGTTTTTTCCTTCTTCTGCTTTTATTTCCCACATTTTTATTTTCAAGATCT
CCACATGGTTTGATGACGACCACAGCACCTATTCTAGCTATTGGTAACAATTTATTGAGTAACATCATCCATATGCTCC
CTGTGCCCCAGCATGTTTCATGGGTGTTGTTTTGGGTCACTCAGGTTGTTTTCAGATTGTTCATGAGTGAGCGAAAAGT
TTATTTGCACTGTTCTCAGGGCCATGTCCAGGGAGCTGTCTGTGTTGAATAACAGCATTCACTTTTGATTTAAGAATTT

Fig. 6.303

TATCTAGCTAGATCAAGAAATAGCTGATGGTGACTCTGGAAATCCTTGTCTCAAATTATTCATGCTAAGAAATACCACA
AAAGAACCCTGGGCCCCAGTTTCTCACTTTCCTCTAACTGGAATGTTGCACAACTTTCCTTGCCCTTCCCTGTCCCTCC
AAGACACGTCATGCTGACACCTTGCTCCCATACCCCAGGCACGGTGTAGCTGGGGTTGCTGCAGCAACAGCACACAAGG
AGTAACATTTCCCAGTGACTACAGTGGCTGGGATGAGTCAGTTGAACATTTCACTGGGTTTTTATTAGTGTATGATGCA
GTCCCATGTCATCTACAGTTCCTAGCCTGTCCAAGACTTACACGGGATGATGTGGAACACTCCATGCTAATCACCTTCA
AATATTAGATGGTCAAGGGTTCTCTCACTGAAGTCACTGCATTGCTGGTTCCTTCCACAGCACCCCTTACTAATATCTA
CAGTAAGAGGCCAAAAGTAAAACTCAGGCCCCACTGCTGGAACACCATTTCTACTATTGCATATCCTGTGTGCCTAAAA
AGCAACAGTGACCCTGGCTGATGATCAAGAAGCCCCTCTTTTTACCCAGGGAGTTGGACAATTGTTAACATCCCAGAAG
ACATATTTTTAACCCAGTTGCTGGGAAGAACATGTGCTGAAGTATAAGGATGGAATCACTGTAATTCTCTATGGGAACT
CATGAAAGTGGAACTTGCCGTTTAATATTGAACGACACTGAGCACAGAGTTATTGATGATTTCTAATGCGGGATTTGGT
TTATTTTTCAGACACGGAGATGACTTGATTGTGACTCCATTTGCTCAGGTAAGCACAGCTTGGTGAATGGGCAGGTTTC
TCACAGATGTAAAAATTTAATTTGGGGAATTAGTTCGGGTTATTAATTTAATTTAATTTTAAATCAAGCACAAGTACAA
ATACAAATTCTTGGTTCATTCAAGCAATTCAAAAGCAATGCTAGAGAAAGTGACTTTGGCTATATTAATCTGTTTCCTA
TAAACCCATAGTACCAAAGAGTGTCTTTGCTTCAAATAATAAATTAGCTAAGGGATATACTTAATTGGGCTCATACTGA
CATAAGCACTAGAAGCAGAAGGCTATATCATGGCTTAAGTTATGTTTAGTATAATTAGGTACATGATCAGTGCTTGAAA
TTCAATATTCCAATTCAACCCAATACCTTATTTATCTCTTTTTTACATATGCCATTTGTGCAGAGATTTAGCTGAGTGA
TGTGTTGATGTTTACTTCTTCCTTCTAGGCATACAAATCATGAAAATACTTTAACCACATGACATATGTGCAAGCAGGT
GATAACATGATCTAAAATGTTTGGGAATATAAATATGAAAGAGTTGATGACCAGATGTTCTATGTATAGACCAATACTT
CTCAACCCTACCTGCACGTTAGATTAACCTAGAGACCTCTTATCCCAGTGCCCAGGCTGCAGCCCTGGTCAATTAAATC
CAAAAATTTGGAGATCTGTTACAAGCATCTGTATTTGTTAAAGGCCTTAGTATTTTTCTAGTGTGCAGGAGAAGTTGAG
AGTCTCTGGTATAGACAACTAAGGGCGGAATGAGATAAAACTGATTTAACCTGGGGCATGAAGCAGGTTTAAAACCAAC
ACTGATGAGTAAGAAATGTTAAATATTAAAATGCAAGTAATCCTGAGAGGTTGTAAAAATTATAATCAGGCCTATATCA
TACATCAAGGTGCTCTTGCACCTTGGACAACTCACTTAAATTTTCTGGGTCCTCTTTTTTTTCAACTGGTAGAGTTAGG
GGACTGAGCTGGATGAAAGACAGTCAGATCTAGTTAAAACCCTTTCACCGCCTCTTGCCAACTCAATGGACTTGAGCGA
GTCACTGAACTTTTCCAAGCCTGGTCTCTTCCTCTGTTAAATAACAGTTCCAAGAGTACCCACCTCATAAGATTGCTAA
GACACTGAAATAATACCACGCTTATAAAATGCTAGGCACAATTGCTTGAAAATATAATATTATAAAAACTTTGTGATTG
GTTTAAATGTATAGAGCTGAAAATGTTCTTTCATTTCTAAAATGTCATAAGTATTATTTTTTAAATGGATAATAGGGTT
TAGATAGTAGGATTATGTATAGTTCTACTTTTTAAAACTTTCCAAACTTTTATTACTGTAACTTAGACCTATAATATAA
TCAATTCATAAGTAACATAATGTATAATAGTAACTTTTTAAATTAATGCAGGCAATTAAAAATAAAATACAATCACCAT
CCTTTTCAGATGGTTAATATCTTGTTTGCTGAAGGTTTTGCTGGAGATTATGAATTCTTTCTAGTACCTGTATTTCTGT
GTCCAAAAAATTTACACTTGTATGATTTAATAATATGATGTGATAGCAAAATCTTATAAAGCTGAGGGTTTTTAATTGA
TTACTATTGAAAACTTATGGCCGGGTGCGGTGGCTCGTACCTGTAATCCCAGCACTTTGGGAAGCTGAGGTGGGTGGAT
CACCTGAGGTCAGGAGTTCGAGACCAGCCTGGCCAACTTGATGAAACCCCTGTCTCTACTAAAAATACAAAAAAATTAGC
CAGGCATGGTGACGGGTGCCTGTAATCCCAGCTACTTGGGAGGCTGAGGCAGGATAATTGCTTGAACCCGGGAGGTGGA
GGTTGCAGTGAGCCAAGATCATGCCACTGCACTCCAGCCTGGGTGACAGAGCAAGACTCTGTCAAGAAAAAAAAAGGAA
AGAAAGAAAACTTATAATTCTATATCTAAGACCTCAGAGAGAGGTGAACAGACAAAATATGGCATAACAATGTAAGTAA
CATCATCAAACATAGAACCAATCATTCCAATTTGAGTTCATTCAAGTAGCTATTCTTGTTTCTAACCAAATGATCTAGG
TATTATTATAAGAAAAAATATATATAAATATTTAATAACAAATGAAAAAAGGTCTGTGTATGATATATGGTCTTTTACA
TCAAGTAATATTTATTAAGCTGCAACAAATAGATTAGTAAATTGGACTTGAACCCTGCCATCAGTGCTCTTAAATTCCA
AGGAAATCTAGTCTTTTACCTGATTAGATATTTTCTGTAGTGTACCTATAATCTCCAAGGAAAAAAAACTAATGGAATT
TCAAGATATTGGGAAATACACACATATATGTAATTTAGTCCATGTTAGTAAGCTATTTAAATAAAAAAGATGTGTACTT
AATATACTTGAAATTAGAACTTGGAATATAAATCAGCTGTATAATTTATAGGCATATCTGATGCCTAAAAATAATCCCA
TAGTATATTAAGTCTTTGCTTATGATTAGCTAAGTGACTCATAACACCTTGTAGAGAGTGGTCATTACTTGAGAGGCTG
CCGATTTTTTTTAAGGGGCTTCATCATGGTTTTCACAAATGGCCTTTTACTGGAGTATAAGACCTGGAAAGCCCCACTA
GAATTAAAAACAAAACAAAACAAAAAACTGTTAAGCCCTGAAGAGTTTCACCACTCTTCATAGAGCATCTGTGGGGAGG
GGTTAAGAGAGAAGTCCCAGTGAGTATGTTTGAGTGGCCTTCTCTTAAACCCTGTTGGACATGATTGGCATGTTTTGCT
GACCCAATCACTAACTTCTCAAATTTTCTTTAATACAAAGTAAAGCACTTACCACTTAATGGTAAGTGCTATTTTAGCA
TTAACTATTTAAAACTAAAAATATAAGATACTTATGTCACTTGAAGTGATACCAATCTAATTTGTCCTGATATACCATA
ATTGCTTTCACCAAAGGACAGAAAACAATGGATTTAGAAAAGTCACTCAGAAAAATATTTAGCCAAGTAGGCCAAAGA
ATTACCCTCTTTTCTCAGCATGCTTTGAAAATTGGAATTTCACACTAAATTCCAGTGAAAAAGCTATGCTTCTCAAAAA
GACAAAACAAAACAAAAACTTTTGCATAAAAGTTTAGAAAAATAATAAGAAAAAGAAAAGGAAAATTTTCTAAAATTC
CAAACCCCAAAATAACTGCTACTGACATTTTATTTTATATCCCTTCAGATTTATTTTTCTGTGCATATTTTCTGTCCCA
TGGCTCCTAAAAATGGCCTTCCCCTGTCTAAGGTGTTCAAAGATCCCCTCCCAAATCCATCTCATCTTCTGCCTCTTCT
TGAGAACTCATTTCTTTATGCCTGAGTCCATCTCCAAAACACGAATCATGGTTTCCAAATCATGGTTTCCTTTGACGTG
AAAAGAGCAAAATCCTAAATTAGAGGAGAATTTAGGAAGCCGTGCAAAGATAGATTGCACTTTTTTGGCCAGGCTAAAG
CCTGAAACATCTTGGATAGTAATTTTCAGAAAGGATCCTATAGTATCTCTCCATAGTTTATCCCATTGTCTAAAACACT
GTCAGGGCTAGAAATTCTTGCTGGTGTTTAACCTAAACTCTTTTCCACCTCTGATTTCTTATGCTTTCCCCTGTAAGCT
CAGAATCCCTTTGGTCCTCAGAAAAAGTGACAGCTTTAAATATTTTTCTTATTTCAATTGTTAAAGTATTCTCTTGTGT
TTGTGTTGAAATCTTTTGGTGTGGGTGTTTCCTTAGCACGAAGGCTAGAGAGGAATCCCACTGGAGTGCACGCGGCAAC
TGACCTTTTTTTCTTGGCCAGAGTTCTTGGGGGCCAAGGAGCACTAAGGAGGCACAATGCTGATAAACTGTAGGAAACT

Fig. 6.305

CTTCTCTGCTGTCAGCTGCCTCCGGGCTCAGTGATCCCAGGATTTGTGACACAACTACCCTGTAGTAAAACTCTAAGTT
GACTAGAATTTTCATGTGGAAGTGTGTAATGTTAAATGAAGTAGACTCTGATGAAAGAAAGAGAAAACAGGAAAACCCA
AGCATTATGCTGGATCCCTGGAGAAACCCTCACTTCATTCAGACTAAGGAGATATCCCTGATTTGAAAATACAGAGGCG
GGAGAATAACTTGAACCCAGGAGGCAGAGGTTGCAGTGAGCCGAGATCGCGCCATTGCACTCCATCCTGGGCAACAAGA
GCAAAACTCCGTCTCAAAAAAAAAAAAAACAAAAAAAACAAAAAAAAAAACGGGTAGGAACAACTACATCTCTTTACCT
TTACTCTAACCAAAATACAGCACCTGGGATACTTCTAGGATAAAAATGCAGTAGTTATTAATACTATAGAATATTACCA
TTTAGTTGGTAATAAAATATAACCAATATTCTCATATTCCTGCCTGTCCCTCAGCCACTTCACCCAGCAGCAACGATCT
TGTGGCCTCATCACCATCCTCAAGCTTGCAGACTGTGCTAGGCCCTCCCTGCCAGGCTATGAAAGAAGATAGTCACCTC
GTTTCAGTCGGTGCTAAATTTTTAGCTTTCTTTAGCCTTAATTAATTTAAATTACAACTACTATCTTCTGGACATCTA
AGTTCTTTTTAAGAGCGAACCATATAAAATTGTCTATCAACCTTTTCTGGTGTACAAACCAGCAATTTCATAGGGTTTA
AACAAAACATAACCTGGAAAGAGGTTTTCTTTTCATAAAAATGACCTTTCTATTTTGTAAATAAGCATAACTTGACTCC
AGCTTTTTCCGGAGGTAAAACCGAAGTAATGAATCTCTCCCAGTGCGGGTCGCCGCTTCCTCCGCCGCCAGTGGCACCT
CAACCTCATGGTCTGTGTTTTACCGCCATCTAGTGGTAACAAGTGTATATGGTTATGAAAAACAATCCTCGAAACCATT
TATTTTCCTCTTTTTTTTTAGGCTATGATGTTCAGCTGTTTAAGTGTTAAATGATAACCGTATTTTCCTGCTATTTTCA
GTGATTCTTATTGTTTAATAAATGTTTAGAAGCACCTAAGAAGATCCGAGAGTAGTGTACGTAAATAACATTGAATCCT
TCCCCATGGGCTAATACATGAACCATCTTTGTCTAAAATTTTTCTGTAAAACTACCAGTATTTCCTTCCTAAGGAATAT
ATATTTCTCATCATTCCCAATGTAATTTTGACATTGACTGGCTATACTTCTGCTTGGTGGGGCAGAAGAGAAAGAAATG
ACCTTAATTTTCTAACCATTGAGCTCTGTGGAAGAAACGTCAGGGATCTTTTTGGTTAGCAAGCATTAAGGAGTAAGGA
CAACTGTAAAAGGAGCCTTAAAGCTTTGACTACAGTTCTTAAAGAGTCGAATTCAGGGGAAGTGAGGGCTGCCCTGAAC
AAAAGCAAAGAACAATGGAACTTTAACTTAGGGGCTTCAGTAAAACTGTTTATAGTTCTCCCCACAGCCTGCAGTAACA
GATGCTCCCTCTTTGTGCCCTGCAATGCAAAGTGAAAGCTTAAAAGACTAACACAGTGATAACAGTGATGACGACACCA
AGAGTCAGTCAGCGAGGCCCAAGACAACACCCCCTTATAAGATTTGTCTAGAAATGTTATTTACACTTCTGCCAATAGC
ATACATGTCATACTGTAGAAGATAATAGTTAACACCAAACATAAAATTTATAAAATAGTTTGTCCTGCTGCAAAAGAAA
AAAAAACCCACACACACACAATAAATAATCTAATACTGGCATGCCTAGGAAATAATTTCTCTACAAGATTATTTATTGC
AACAGTGTTTGTACAAAAACAACTTTAAGATAGAAAACCTAAAAGTTGATTGCTAGTGGCCAGGCAGCTGATTGTCTGA
AGGAGAGACCGGAAGACAGATTCCTTTTTTCACTTTTTATTTTGAAGTATTTCATATATATAAGGGAATATAGCTTGTA
ATTATGTAAAATATAAAGAATAATACTAAAATGAACAGTTTAAGAAATAGAACAGTTATCAGTATTTTAATGTCCCCTG
AGTGTCCCTCCCCAGGTTAATCTGTTTCTATTGCGTCTTTTCAGAAGTAATAATAATTTTGATTTTTATCTTAATCATT
GAAGGGGAGACTTTTTGCTTTATACTCTTTTGTTTAAATTCTGAAGCATGTGAAGATATAAATTATACAAAAATACATA
AATTTTAAACTAAAAACAAAGACAAAATAATATTAAATTAGATTACTTATTAAATTAGAAGTTTATTATAATAGAGGCA
AAAACTCCTCTACAGAAATTTTTTCTTTGATGAACTAATTTTTCTTTTCATGACTGATGTTTCCCTTCAAATGATCATA
GAAAATAAGTTGCCTGCATTTCTATGTCTATTTACCCAGCTGTCAACTGCAATGAACTTAACTATTATGTATTGGAATA
AAAATCTCAGAATTCTAGGGTTAAAAATTTTGCCTAGGAAGGGGATCAATTAGCTGGTGCAATGATTTTATCTTAAAGT
TTCCATTAGTATGTTTGATATTCACTTCTTAAAACATAAATTAAGCCTGCATGATTTAACGACAGTGGATCATTTATCC
GATTTACTTCTGCATCATTCAAGATTTCATGCCTAATGAAAGACATCGTGGTCTGATGTCAGCAGTCGGCCATTTGAAT
ACTCCATCATAGGCAGCGTGACCTTTCAGAGCCGTGGGTTGTTTATATGAGATAATGAGCCAGGTTTTTCCAGTGACTG
AGTTAATCACGGTTGGCTTCTTAGGAAGCAGCATTAACTCCTTTAGGGGAAAATTCTCTAAGTCACTGTCCCAAGGCGT
ACACAGCTCTCCATTGACTTACACAAATGAATGTCAATTTCATAAACAGCAACAACAAAACAGAGTCTGGGACATTTTT
GTCTTAGAAAAAAAATTAGACTGATTTTAGTCTAGGTCTGTGCCAGATGAAACATTTCTGAAAACAACTCTGGAAACTT
TGAAGCAATTAAAACTTTGGAGACTCTTGAATTACCAATGCTAGGCATTAAGTAAATTTCCCAAGTGCATGCCAAGTCA
TTAAGTCAAAGGTAACGCTGCCATCATGGGCTAATATTGGCTGAATGCTTTCTATTTGCCAGGCACTGTTCTTGGCACC
AAACCTGTCATTCCATATACTCCTCACAACAATTCTACGAGGTAGGTATCACTATCCCAGTTTTCCAGGTTAGGAAGCT
GAGGTACAAAGAGGTTGCATATCTAGTCCAAGTTCACACATTTACTACATAACAGAGCCAGACAGTCTGGGTTGTTAGG
TAATACCTACTCAGACATTTGGAATCTGTGTTTTACATAAACTTAGCACTCTAGCTGTCACCCAAATCACCTATAATCC
CATCTAATATGGGTTTGACCCTGGGGAAACTTGCCCATTTCAGGAGAAAGAGAGGAGGGAAGAAGGAGATAAGGCTCTA
GGAACCTTCTCCTAGGCTCACTTCCAGTCCGTTGGCTACTTTCTAGTTCCAACTGGAATTAGAAAAAGCGACTGTTAGA
GATAGTGACACCTATTGGTCCTGCCTTGTTATGTGTGTGGGCATGTTGTGTCTATGTATTCATTTAGTCAACAAATTTT
TATTGAGTATCTTCTGTGTGCCAAGCATTGTGCATGTACAGGGCGTAGCATTTTACATAAGAAACGCATCCCTGAGAGC
TTCTTACAATGCACAATTCAGATAACCTTAACAAAAGAAAACAATGTCTGCTTACTAGCTAGAGTAGCCATGTGGCAAA
GGTAGAAAAACAGTTTAAAATTCACTTCACTTGCCAACTTATTATTATGAGATTCTTCATCAATTTTTGAAGAGATTTG
GGAGTAGGGAATTTTTTATCCCTAAAGTGAGCTTTATTAGCATTTTATATTATACTATTTGAAATGTGCAAAAATGCAA
TCATGTTATCTGTGTATTGCCTGGAATATTGTCTTGGTGACTAAGGAACCCAGAAATACTGTGGAAACTGCTGCTACTG
TCACCATGTGCATAGACAATGTGGAGGGATTTCTGGAAAATTTCTGCAGTCTGGCCTCTCTGGATTTCGTGTGGATACC
TACAAACTGCACTAAGTGTTGGGAGATTCTTTAGTGGTATATGAAACTAAGTTGCAAGCAATATCAAGTTTTCTCTTAA
CAAACCATTTTCAAGTGTATTTAAAATGGCCTTAGCTCAAGAAGTTTCAAGAATCCTTTCTTGTTGTAGGTCTTGGCCA
GTCTGCGAACTGTACGAAACAACTTTGCTGCATTAACTAATTTGCAAGATCGAGCACCTAGCAAGTAAGATATCCTTTT
TTCCCCCCTCTTTTTTGCTGAACTTTTAAATAAGTTTTCTCAACTTGATTGAGCCCAAGGCAATATGTTAGACTTCTCT
GTGTTGTTGCCATGTTGTCTGTGTATACTAAGTCATATGATGTCCTGTTAATTTTCTATAAATACTTCGTGGTGATGGT
TCTAATATCAGAAATGAAGCAGTATGACAAATAAATATGGTGATTCCATCTGTCAGAAATCACCTGGCATGATCAGTCC
TCCGCCCAGTTATTTACACTCAGGGTAACTTTATAGTTTCGGCTTACTTCATAAATTAACCGTGGGTGAATAATCTCAT

Fig. 6.305

CACACCTTAAGATCAGCTGAAAGTCATCCTCTCAAGACAACGATGATTTGGAGAAGCGCCATATCATAGCAAAGATCTT
TGATTCTCCTGCTGTTACTGACTTTCAGATCAGCAGCATTCATGGAGCAATTAATAGAATTGTGGTTTATATGACAACA
GGGAAAGCATTTGAAAGATGGGAAAGGATTATCATTTCAGGTTCTTGATAAAGGCAAAAAAATCTAAAAAGATAAAAGT
AATTTTTCAATATTAAATGGAAAACTGGTTTGCTGTTATTTCAATGTCCATTTTTTTAAAAAAAATCTGCTATTAATAT
GAAATAAAATATTAAAATGCCAACTTCAAATAATTTTCCAGAAGGAAAAAAAACATTTAAATCATATTAAGAGGATAGT
AAATATAAGTGTATTAGGAACTATAACTTACCTAAGTGCATAACATTTCATAGTAGTTACTACTTCTTAAAAACAATGA
GAAATCTGAACTTTACATTTCATAGTAATAAAATTGACCTCCCAGATTCACGTTTTTCATTATCAAAAATAGCTCTGGC
CGTTATTCAAGTACTTCTTGTGATAGAAAAAAGTTTTTAAAAATCAATATAAATGTAACAATGCAAGCTATTGGAATGG
AACCCATTAGGTTCTGTTTTTCCAGGTAATGAATTTTTGCAGTCCTATTCTCTCAGCCTGAATACTTCTCATCTTCTTC
TTCCTCTCCTCATCTACTGGGATAATTGTCATTCATTCTTTTGGTTGCAGCTTAAATAAAATTTCTCTTGGAGCATTGT
CCCTGATGATACCCAACATAGACACACACCCACAAGCCCTAATCAAAGTGATGTGCCTTTCCATCTCTGTCTGATTGTA
CCTTGTACTTGATTCCTATGTTAGCACGTAGCTCTCTGTGCTCCTGTTGCCTGTTTGTCTGTTGGGATGCTCCTGAACA
CTGTCAGTTCCCAGTGAGTAGGAATGTAGTCGGTTCACATTTGTATTCCCTGTGCCTAGCATAATGCAGAGTCTATCAG
TCTGCAAAGGCCTGTTCGCTGAAAGGGCAAAGTAGTAACTCAGCATGTAAAATCTGAGGGCATGCTTTGAGGTACCTGT
TCATTACCAATCACGTTTTCTATGTAACGTGGCCGTGCAATGTCATACTGACCTCAGCGGCCCCCTTGGGCTTTGGGGA
TTTGGTAGCTTGTAAGGTCAATCACCTCCCCCTTAGAAAGTCTCAGCTCTGCAGAAGAAATGAAGTTAACTGGTTGTCA
CTCCCAAACTTTTTAGTCTCGAATTTTACCCAGGAAACTGAGATTTTTGTCTTTAAAAAGTGAACAAGAAACTCCCTTT
ATGCTTCCTTTACATGTGGTCACCTGGGTACCAGCATTTAAATCTGTGGCAGGTAAATAGTTGATCAGTCAGGCTCCAG
AGACGATCTGAGGCCTGTTTCTATGCAAGACAGAAGTTTTCAGCTGACATACAGGGATGGAACAGATTGAAATGGAAAG
GAGGAGCTAGAAGAAAACAGAAAATCATAGCTTGAGCCTGAACTTCCTCTCTGCCTTGTCAATGCCCAGGGTGACATCT
AACCAAACAGTATTATCTGGCAGACTCTAAGTAAAGGCCACTGTGGTCTTCCTTTTGGTCAATGCAAATTTGTGCCTCC
ATTACTGATTCAAACCAAATCGGCTTCTTTGGGTATCAGAATAGTAGGATTCAATCTATTCACGGCTAAACTCGATTCT
GTTCAGTGAGAACAAAGTGCTGTAACTCTGCCTCATCACATGATGACCCTGGGAGAATCAGAACCTTTCCTGCTGGGCA
CTCACAGAGCCACTAGAACATTTCCAAGCTCATCCTTGGATTTTATGGAAGGCATGTGCTCCTTTGCACAAGCCACCCT
TTTTATTTGCTGCAGAAAAGGAGTCTAGGAAGAATGCATTCCAAACCCAGCCCCTGGGTGGGTATTCAGATGCACATTG
CTGACTTGTTAACACATTACTGCTTCTTGTCACCTTGGGTTTTTTGTTTTTGTTTTGCCCTTGAGATTTTTTATTCCAG
AAGTGAGTTCTGGCTCATCTGTCATTAGAGGAGGTATCGAGGCAACCATGGATCAAAGTATTAATATTTTCTGCTTGCC
ATTACTTGTTCAGATATCAAGTTCCTGAGTACCAGTTAATTGTAGGATTGATAGTAAAAGGAGATAATTAGAATTGAGT
CAACCATTTGGTTTTCCAAAACTGTAGAAGAGTGTGAAAATATTTATTTAATACCATTCCCAGACAAAATCAATGGTTT
CTAAATTTTCACAGAGCAAGGACTAAAAAGGAGTAATCAGGATATCAATTATTTGAATGATAAACTCTTAGCCAGAAGG
TAACAGATAACACCCTGTTACACACAGCAAGACCCCATCTCTAAAAAAAAAAAAAATTAATTAGCCAAGCATGGTGGCAT
GCACCTGTAGTCCCAGCTACTTGAGAGGCTGAGGTGGTGGGGGGAATCACTAGAGCTCAGGAGTTCTAGGCTGTAGTGA
GCTATGATCACACCACTGCACTCCAGCCTGAGCAACAGAGTGAGACCCTATCTCAAAACTTTAAAAAAAAAAAAAATTTA
AGAAGAAGAAGATAATTACTGGTATATAGACCAGAGCTATTTCAGAGCAGCTGCTTAAAATATTAATATTTTGGTTTAT
CGAGTTTAAATTCTCCCCATTTTTCCCCCAACCATTTTATTTTATAACTAAAAAAAACTAAAATAATTCAGAAGTAAAA
TTTGGTGCATTTTCAATCAAACACAAAATTTTAATCCCAAATCGATACCAATAACCTTAGGAGCAATGAAAGGGAGCCA
GAGGCTGAGTGGAACCAGTGAGAATTTACAAAATCCCAGGCTGCTTTCCCCAACTTTCCCCCACCCTGCTAAGAAATTC
ATCATCTCAGCAAGGCATATTTGAAGAGATTGATGCCATTGGCACATATGTGAGGCTGTGCATGCAGGTTCCACAAAAA
CATCTCAAACTAAGGCAGCAAAGCAGAGCATAGACCCTAGGATCACATTCGTTTAGTTCAAATCTCAGCTTCGTTACTT
AAAACAAGTTCTTCAAATTCTCAAAGTTTTGTTTTTCTCATTGGTAAAATGAGAACAATGAAACTTACTTCCTTAAGGC
TTATTGTAAGGATTCAATGAGATAATTCATTTAAAGTACTTATTTAGCAATGTCTGATCCACAAGAAGTGTTTATTAAG
TGTTCACCCCTTGGTAGAGGCAATATATATATAATTATTATATACCTAATATATATATATATATATATATATATATCAGA
CATCTTTGAATGTATCTAAAAGTGTTTTTTAATCATTATATTTTAAAAGCTGTCAGTTACAAGTAATAACTTTATAAAG
TTATATTTCAAAAATGTTGATGGATACTTTATAAATGATATTCTTTTCAACATAATTTATTAAGCACTGACGGAATACT
GGATGCATTGTGCTAGGCTCTGTAGGGAATATAAGTTAATCAGACAGCATGCTTTTTTTTTTTACTTCAAGGGGTTTAT
AGTCATTTTGTGGAACTTGGCAAACATCTGAAAACTTAGAGAACACAAGATATAATTTATTTAAGTACCTTTGGCTTAG
AGTATTTCTAAAGCTTCTATAGTATCTATTTGGACAAGTCATTAATATACCTCTCTAACAAATATATCAGAGGTGTTTT
TCAATATAAGAAAAGAAAGGAAAAAGTTCAAATAGCTTCTCTAATTATAAGATAGTTTACAACAAATCATTCACTTCTG
ATAATGTACAGGCAATCACGAGAATTTAGGCCAACAATAAAAATTTCTTAACCCTGTATTAGGGAAGACAATTATAAAT
TGACTGCTTTTTCAAATTCAGAGTCTATAAGCTCTGGCTTCAGCGAATAAAGTCTGTAAGAATTTCCTCTTCTCTCATG
TCCCAGTGACACTTACATCAGCTTTATTTACCCCAAATCAATCACTGTGAGATTTACCAGTTTTCTTTTTGGACATGTG
TGATCTGAGCCATAATACAAAGAACGCCTAGGGACTTGTCTGGCTAGTCTGAAAGAAATCATTTGCGTGTCCAAACTTA
AAAATAATTCTTTAAAGTAAAATGCTATATCTGAAATGACTCAGAGAGTGATCAAATCAATAAGCCCCACATATTTACT
GCTTTGTGTTTTTCTGTCTTTGTCAGAAGATCACCCATGTGCAACCAACCATCCATCAACAAAGCCACCATAACAGGTA
AGAAAGATCTGGAGCTTATTCTTCATGTGTCTAGGAAGAAACCATTTCTGCCAAGAGTCAATATAACACCAACACCAAT
TTCATGCTGCAATTTGAAAATGTTAAAGAAATTCTTTCTTCTCTACATTATCATTTCTATCATTGATCTCACAAATTGT
CTAAGCTGTTATTTGGAACATTTTTACCGATTTACGTTTTTTACTGATGTACATTATTTTTAACCATTTAACTATGTGC
TTATACTCATTTGAGCATTGCTCTGGGCATTTGTATTTTGAGAGATGATGTTACTTTCAAGTCACTTCCCATTCTGGTT
CCACACATGTGTTATTAGCATGATATAATATGTCATCATTTAGTTTAATAAGAGTGAAGGCATAAATAAAAGGAGTAAC
GTGTTGGTTCATCAATATCCCACTTGTGTGTAGGAAGCAACATTGTACCAGTAGTCCAATAAAGGACTGAGAGAGCTGA

Fig. 6.305

GAATAAACTCAGTTTGGGAGGGGAGAGAAGTTAATATACAATGCAGAAAAAGTTCAATGAGATCAAAACGTTGGGATCT
ATAGATGTTTGGGAAAGAAAAATAGGAGGAAAGATGAGAGGAGCCAAGTGCATAAAAATAAAATTATCTCAATTCCTAT
TAGTCTGTTTTAGGCACAGGACTTGACCCCAGCTGAACCAAAAACAGAATGCATGATCTCATTTTGCTGAACCTGAAAC
CAAATTGAACTCTTTTGACTATTTCTTGAAACCCCAATTGATTCATTAAAATAATTGCCTGGAAAAGAAAACCTATGTT
TTCTAAAATTATTACCAGAAGAAAATTAGCATATTCTCCAAACTAAAACAATTCGTCATTGGATTCAAGTGTCTTCCTT
GAGCTCCAACCCATAATGTGCTGAGGAGCTCTTATTAAGTTATTAGTGAGTACACTTTGCTTGAAATTTAACTTTATCA
TGTCCAGACGTCTGTCTGTGTTTGTGGTCACCACATTAGAGTTGATTCTGGAATCATTGTTAATGTCATCTTTTCTGAA
TGTCATCAAGTGAAACTTGTATTTCAATGAATGTTAAATTATTGATCTCTTCTTCATGTTTCTCTTTCAACATATTATT
GGTGATGACTTCCAATTATCATTTTATAGTACATATATGGTTAACCAGTTTTGTTCTTGATATTGATCAAGAGATGAAC
AATAGGGCCAGGAGTGGTGGCTCACGCTTGTAATCTCAGCACTTTGGGAGGCCAAGGTGGGTGGATCACTTGAGGCCAG
GAGTTCAAGACCAGCCTGGCCAACATGGCGAAACCCCATCTCTACTAAAAATACAAAACTTAGCATGGTGGCGAGCACC
TGTAATCCAAGCTACTCGGGAATCTGAGGCAGGAGAATCGCTTGAACCCAGGAGGCAGAGGTTGCAGTGAGCCGAGATC
GCGCCACTGCACTCCAGCCTGGGCAACAGAGTAAGACTGTCTCCAAAAAAATAAAGAGAAAGAGAGATGAACAATAACAA
TTCCTATATGCTAAAATAAATACTTTGAGTAACTGATTTCTTCTGCCAAAATTCAAATTCAACATAAATGAGTCTAAAC
TGAGTTGGAGGTGTGGAACCGGATCCCTCTGTTTCTATGCACTTTCCTAAGTTGAGGAATGGACAGGCCTACATTTATG
AACCTGTACCTGAGGCCTCTAGTGAGAGAAGCCACATGGAAGCTGGTCTTCACGCTGCTCCAGGCACTAAATCTGACCC
CTATCAAGAGGAACTACCCTCAACCCCCAATTTTGCAATAAGCAAGAACTGACATTGCTATTTGGGCAGAATGCAGTGC
TATTTTGGTCCCTGGAAGCTTTTTAGCTTGAGGTCACATATGAGCTGGCCTCACAGGTGGAGCAGCATTCTCCCAGAA
GAGCAGCATCAGGTACCAGTGGAAATTGTTGTGGCTGACAACAGATGGTTGGGTGCTCAGTGGTCAGGGCAGCTGCCCA
GCCATCCCAGCAGATGCCAGGCACAGATTAACAGGAGAGAGTAGCTACACTCAAAGGGCACACACTTGATCTTAAGCAT
ATGTGACAGACCTCATAGAAGCTCCTAGAAATGTATACATAGTAAGGGGGTCCTGGAGCAATACCAGAGGGAATTATGA
GCCACAGAAATTAAGAAATTAAGGTGAATATGGCCTCATTCGTACCCACAAGCTCCTGACCTGAGGCCTAGGGACAAGG
GGGACACAGAAATACCTTATCTAGAAAGGGAAACTAATTAACTGTTGTTACCACTTAGTGCTGCTGGGCTCCTCACAAA
GCACAACAGGAAATGAACTGACTAAAACTGGGAAGTCGTTTTTCTTGCCCAAGCATAGCAAACCAAGGTGGGAACATGG
CATAGGGATGGAGGGATGAGGGCAGTAGCAGGGGAAGGTTCCCCTTTCTGAGCCCATTTTGAAAAAGTGGGCCCTTAAA
ACCTCAGTGCTAGTAATAATAATGATGGTTGAGATTTTGACATTAGTAAGATTTGAGACACTCAGAAAAGGCAGTGCTT
GTGCCTTTCCTCCCTCTGCAGCTGACCACTCAGGCCCCACCCTCTAGGCTCACTCCCCCTGAAGTTGGAACCTGGCTGT
ACTGTGGCAGTAGTCCTGGGAAGGGCAAAGAAGTATTAAAAAGAGTCAGTGAGGCACCCTTAAGATGAATGGGTCCCTG
TTGATAGGGGTCAGACCTAGTGCCTGGAGCAGCATGAGGACCAGCTTCCATGTGGCTTCTCTCACTAGAGGCCCCAGGT
ACAGGTTCGCAAATGTATGCCTGTCTATCCCTCAACATAGGAATAAGGTCTAGAGTAACAGTGTAGCCTAACAGTTAAG
TTCATGGCTGATCCAAAAGGCTGCTAGAGCACACAGCTCCAAGTGCCTCCGGAGGGCAACTCCACAGAACATCACAACA
TGGTGCCCCTAGAATTATACCACGTGGTTGCTCTGCCTACCCAGCACTCAAATCATGCTCTATCATGAGAGCTTTGTGG
CCCTGGGCAGGTTGCATACCCTTTCTCTGCTCAGTTTCCCTACCTATAAAATAGTGACACTGCTTCCTGCAGTTGTTGC
TGGCTTGAATGAGTGAACACGCATGATGCCCTTAGCATAGTGCCTCACAGAACCAGCACTTAATACATCTTTTTAAATT
CCATTTTGTTGTTATTACTTGGTTTTGTTTCTAGGGCCCACTGTATACATAGAACTAGGGGTTTCTTCATCAATTCAGG
CTGCCATAACAAAGTACCATAGACTGGGTGGCTTATAGACAACACAAATTTATTTCTCACAATTCTGGAGGCTGGAAGT
CTGAGATCAGGATGCCAGCATGGTTGGGGTCTGGTGAGAGTCTTCTTCTAGGTTGCATCAGTGCCCTTTGTAAAGGCAC
TAGTCTCATTTGTGAGTGTTGAGTGCTCCACCCTCACGACCTAATCACCTCCCACAGGCCCGGCCTCCAAATACCAACA
CATATTGGGTTAGGATATTGAAATGAATTTTAGGGGCACACAAGCACTCATTCCGTAACAAGGGGGTAATGGAAAGAAT
AGGACAAAGACACAAACGAAGGAAAGGGAACAGTGAGAGAAAGGCAAGCTTGCAAGATCATGAGAGGAAAACTTGTGGG
TCCTTAAATTGGCCAAAATGGATGCGCTTGCTTTGTGCCCATCAAAATGGGGTCTCCTCCTGCTCCCAGCACTGTCTCC
TTTATTCTCATCACAATTCACAGACGCTGGTAGCTTTGTGATAGAGATGATACACTGTTGTTCAGGATGAATTTCTAAG
TCTAAGAACTCACTTTTGAGTCATAGTTGTTTGAAGGAGAAATATTAATTCTCTATCACTTTTCTGTAAACCAACTCTA
ATTTTTAAAAAAGAAGAGTTAAGAACTTCAGCAGTCTACATATCACATACCATGCTTTCTAAGGAGTTGTCACATAGAA
TTTACAATACCCTCTTCCTCTTTTCAAGGTTATTGCATTTGACATGTATTAAAGCCAGGAGAATTTGATTTTTTTTTTT
TTTTCTTGAGATAGAGTTTTGCTCTTATCGCCCAGGCTGGAGTGCAGTGGCGCGATCTGAGGCTCACTGCAACCTCCGC
CTCCTGGGTTCAAGCAATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGATTACAGATGCCCACCACCACGCCCGGCTAA
CTTTTTGTGTTTTTAGTAGAGACAGGGTTTCACTGTGTTAGCCAGGATGGTCTTGAACTCCTGACCTCAGGTGATCCAC
CCACCTTGGCCTCCCAAAATGCTGGGATTACAGGCATGAGCCACCACACCTGGCCGAGAGTTTGATTTTATAGCATTAG
GGTTTTAAAGCTAGGTTTTAAAGGTAGGTCACTGGCCAGTTTTTATTTCAATATATAGTAGGTAAACATACAGGTCTAA
AATGATCTAACAATTCCTTAAAAGTAAGGCTTTGAAGTTTGCATTTATAAAAGAGACTTAAATAGCTCTTTTGCTCTTT
AGTGTGATATGACAAAGATGATGTGTGGCATTTGGAGCCTGAATGTGAACCCAGTCTCTCCTTTTTGCTTCATTTCCTC
ATTTTGGAGATTTGAGTACCTAACACTTAGGACTGTTGCAAGAATTCAAGGAGATAAGTTATATAAAAGGATAGAGTTC
AAGTTGGGCATGGTGGCACACCCCTATAATCCCGGATATTCAGGAGACCAAGGTGGGAGGACTGCTTGAGATCAGGAAT
TCAAGACCAGCCTGGGCAATGTAATGAGACCTGTCTCATAAAGTAAAAAAAAAAAAAAAAAAAAAAAAAAAATGGAGCCGGG
CATGGTGGCTCATGCCTGTAATCCCAGCACTTTGGGAGCCCAAGGCGGGTGGATCACCAGGTCAGGAGTTCAAGACCAG
CCTGGCCAAGATGGTGAAACCCCGTCTCTATTAAAATACAAAAATTAGCCAGGCGTGGTGGCAGGTGCCTGTAATCCCA
GCTACTCGGGAGGCTGAGACAGGAAATCGCTTGAACTCTGAGGGCGGAGGTTGCAGTGAGCCGAGATCAGGCCACTGCT
CTTCGGCCTGGGTGACAGAGTGAGACACCGTCTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGAAAGAAAAATGGATAG
AGTTCCGAATGTGATGAGGAACTCACCAAGTGTTTCTTCCTATAACCCTGTCCCAATGCCTGACATTTTTTTGTTCCTA

Fig. 6.302

AAGCTAATTTAAAAACTGGTAGAATAGAGGTAACAGAGAATATTGGTATGTCAGCTTCTTTGGTACATTTCATTTATGA
TTTTGTTTTCACACAGTCATGGCATGACATTTTTAGTAATCCTTTTATCATTTAGAGTAAGGCTCACCTACATACGTCC
TTAATGTGTGGTGCACACCAGAAGTAAAGAGTGCATTGGAACATGAGAGGGTGGCAAAGAGTCAGAGATGCCCAAGCCA
TACCTGCACTGGGACAGTGATCCCATTTTTGAAGTACAGCCATGTAGCTTGGAGCACAGTCCTTCCTTGTAAGCATTTC
ATTTTCGAACAACCTTAGCTCAAGGCAAGCATTCTGCAGCCATCTCATTAAATGTTACATCTTCACAATACCATTTTCA
ATGCTTCTGAATTTCCATATTTCCAATATGTTTATTTAATCATCCTCAATTAGAGGATTTTCATGCAAGGACACAACTC
TAAAGAAAACGTATTTAAATATCTTTATTTTAAAGATGAAAAAACTGAGACCTAGTGAGAGAGGGTGCTGCTTAGTGAC
AATGCCAGGAATAAACATGTGGTTCCTTTTTCGAGTCCATGGTCCTTCTTACACCTTTATAAAGTAAAATAAACCATTA
GATTCGGGTGGCCTTTATACCCACCGTGGAAGTATATGCTTTAGAGAAAGTAAATGAAGTATTAATACTAACTCCTGAG
TAATAGATGTGGCATTGTATTATTTGTATATGAGCTTGAAAATTTCTCATCCCAACCTCTCACTGGACATATCTCTGTA
GTTATAGCTATTTTGATTATATCTACTGCTTATACCCCAGAGGCATAGAGACCAGCACCCTAAAGCAAAAGACTTCTGG
ATTTTGACTTTGGAAAATACAAATTCTTCTACAGGAGCGGTGAAACTAGTACAGCTGCCTGCTCTTTACCTGTAGGGGG
AGACACATGATGCAGTGACAAGCATAGAACAGCACAGAAGTGGTTTTAGTCCAGAAAATAAATAAATAAGTAAATTGGT
CTAAGTCTTCATTCCTTTTTGTATTTTTTACCCTGAAGATTCATGGCTTCATTAAAAACAGTAAGTGCATTCTAAATA
GAATTTAGTCAATTGGCACGTAGAAAATTAAAAAGTAAACTATCCAAATAATGCTAGTCTGTCAAAACACAATGAGAAG
AAATTTAATCTTATATGTTTGTTGTTCTAAAGCACAAGCAGTTTCTAAGAATTAATAAGGGGGAAAAACAATAATGATA
TTTAATTGGGACAATTATTTTTTTGTTATCTGGGCTAATCACTTAATGCTTTGAGCTTATCGAATGAAAGAAACTAAGC
AACTATTTCATGGTGACAATAAGGATGCTGGCTACTTACTTAGATCTGCCTTTTAAATCTGTGTGTGTGTGATAAAAGC
AAGTAGTATATATAGTTTTTTAAAAAGAAATATAGAGAGATCTAATAGATGGGAGCAAGAACCATATAAAGAAGGCAAA
AGGGATCTACATGAGAGAAATATGTAAGTCCTCAGGAGATACTGAAGTAAAACATGTGTTGTGTCAGTGTATAGGGAAG
ACAAGAGACCCAGCCATTGCCAGAGAAGCCCTACTTCCTCATCAACCACCAGCAGGCAGCAGCTTCATGCTGTAGTTCT
TTTTTTCCTTTAATAGAATAAAGATTGTGGCCACACTTTAATAATTGCCAGAAATATGTGTTCATTAAGCTTTTTAAGA
AATGTGATCGAAAAAATGCTGATGATACATTGTGTTTAATAGCTTTAATAAAAAACTGATAAAGCATCTAATACATCTAA
TGACTGTCGGATTTCCTAAATCTTTTAAGCTGAAGGAGTTTACTTTTACAAAAATCCTCATTGAAAAAGAATCTTCCGG
TAAAAACATTGAACTGAAAGATTTGCATAAATGCATGGAGTATTACTATTTATTAGTTAAACTTATGATCTTTTAGAGC
AGTAAAAGTCAGTTCTCTTTCTTACAAATGAATTTGTTTTGGCCTTTTATGCTTTTATTTAATGAGTAGAGCCATACCT
ATTAATATATAAAAAGATCAGATCTGACACCGTGGCTTTTTGACCAGGAATTGATTGAAGTTAGACTTGTTTTAAGAAT
AGTGAAAACAAGGGCTATGTCCTAATTATGAGGGGAAATAATTTAATTGTGTCTCTCTTGTCTGAATATCTGATTTGGA
TGCTTTGTTATAACTTTAATTGAAATAATTAAATGGGGCTCATGTTCATTTAGCCTAGCAAAAAGGTGATGAGCTAGCA
TATATGTTAAAAACCCAGCTTTCCTCTTAGTAGTTGTCTAATTTTGGTCAATGTACTTAAATTCTCCAAGTTTTGGGGG
TATTCTTTATCAGTAAATTCTAATTCAGTGCTTAACATAGTACTTGGTACTCAGAATGTATTCAACAAATGTTACTTAT
CATTATTGCTATAATATTATTATTATTATTATCTGCTTGGTCAACAGTATTTTCCATGCACCTTATATATGGCATGCAT
ACGCTCTGGAGGTAAAATGTGACTACTGGTTCAAGAAATTTACAAAGTAAGGGAGAAGGAATTATAAATAGTTAAGTAC
TAGCTAAATGCCATGATTGAAGCCTTTATATTTTTTATTTTAATTAATTAATTAATTTTTAGAAATAGGGCCTCACTCT
GTTGCCCAGGCTGGAGTGAAGTGGTACGATCTTGTCTCATTGCAACCTCCGCCTCCCAGTCTCCAGCAATCCTCCCACC
TCAGCCTCCTGAGTAGCTGGGACTACAGGCATGCACCACCACGTGTGCATAATTTTTTATTTTATTTTTTGTATTTTTT
GTAGAGGCGGCGTTTTGCCGTGTTGCCCAGGCTGATCTGGAACTCCTAGGCTCAAGCAATCTGCCCACCTTGGCCTCCC
AAAGTGCTGGGATTATAGGCATGAGCCACAGAGCCTGGACTGAAACCTCTTTAAATATATATATTTATATAAATATATA
TTATATATATATATACAAAATATATAATATATATAATATATTATATATTATATATTTTATAAAATTATATATATTTCTTAT
ATAAATATATATTTCTTATAAATTGTATAAATATATATTTATTATATATTATATACATATTTATTATATATTTATTATA
TATTATATACATATTTATTATATATGTATTATATATTATATACATATATTATATAAATATATATAATATTATATATTTA
TTATATAAATATATAATATATAAATATAATTCTCATATAAATAAATATAACTATTTATTATATAATGTATTTCTCATAT
ATATGCTTATTATATAATAAATATATTTCTCATATAAATATATATGTTTATTATAAAATAAATATATAAAATATATATT
AAATAATTATATTATATATTTAATATATAATATATATGAATATGTATTCATATATAGAGAGAGAGAGAGCCAGTGGCTC
TACCTAGGAAATGCTCCCTGATAAATTTGAAGAACATAATGCTTTCCATGTGGTTAGGGGAGGATTGAGGATTACCTCA
CAACAAAAGACCAGCAAGAATAAGGTATGGAAGCATGGAATGCCTGTCCATATCAGGGGACTGGGAACAGTAAAGGACA
AATTGAGTTAAAGGTGTATAGGAGCAACTGAACAGGATGCTCCAGAGGTAGATTAAGGAAATAATATTTGAGGCCTACA
TAAATAACAGTGGACTTTATTTTATGGACAGTGGAAAATCATTGAGCATTTCCAATCGTAGGAACAAATACACATTTCA
GAATGACAGTAATTGGAAGCAGTGTAGAAAGAGATTGAAAAGAAGAAAGACTAGGGGCAGCCCCATACTCTTCAGGGGG
CTGTCACAGGCCTTGTACAGGATCAAGATAATGCAGCTCTGAACTGGGGTGGAAGTGGGGCTGTGGAGATGAGGGAATG
GGTTCACAACTCTTCAGAGATAGGATTGAAGGGACTTGGGGGTTGATTAGAGCAGAGACTGAGGATGAACAATTTTAAA
GTGAAAGTATGAGCCAGGTGTGGTGGCTCACGCCTGTAATCCCAGCAGTTTGGGAGGCTGAGGCGGGTGGATCACCTGA
GGTCAGGAGTTCAAGACCAGCCTGGCCAACATGGTGAAACCCCATCTCTACTAAAAATACAAAAATTAGCCAGGCGTGG
TGGCACGTGCTTGTAATCCCAGCTACTCTGGAGGCTGAGGCAGGAGAATTGCTTGAACCCAGGAGGCAGAGGTTACAGT
GAGCCGAGATGGCACCATTGCACTCTAGCCTGGGCAACAAGAGAGAAACTTCATCTCAAAAAAAAAAAAAAAAAAGTGAA
AGTATATATACACATGTTCATTACAGCACTGTGAATGTGCATAAAGGGTTAAAAACAATCCAAATTCTAAATAATGTGT
GAATTCTATTTAGGTAGGGGTTAAAAAATTCCCATAATAAAATGATTTTAAATAATTTATTTTTGAGAAAATTTTAATA
ATATGGAAAAATGTTTGTATTTTAAGGAATACATAATAAAGTGCCATGTGGGCAATAGGCACACATTTAATGCACTTTA
ATTATGTATATTGAATTGAACTTAAGTTACTTTTAGTTGTTGACCAGTAGTTAGCAAAGGTAGATAGGTTTACCATTTT
ACATTGAATCTAGTGACAAACATGTTATTTCTCAGGTCCCAGTTGTTAGTTTGCCTCTCCTTGCCTAGAAAGGGCACTG

Fig. 6.308

GTGAGACCCGCCCTAACAATATTTCAATATTATGGTTCCACAGTCCAGCATTAACTGTATTTTAAAATAATAATATCTC
TCACATAGGGCAGCATTTTATGGATTATTGAGCCTATGACAAAAATGTTGTATTATCCTTCAGATGATCAGAAAAACTA
CCCTTAGGGCTGGGTGCAGTGGCTCACACCTGTAATTCCAGCACTTTGGGAGGCAAGGGAGGAAGATGGCTTGAGGCCA
GGAGTTTGAGGCAAGCCTGAAACACAGTGAGACCTCCATCTCTACAAAAAATTTTAAAAATTAGCTAGACATGGTGGTG
CACACCTGTAATCCCAGCTATTCAGGAGGATCATTTATGCCCAGGAAGTTGATGCTGCAGTGAACCATGATCATGCCAC
TGCACTCTAGCCTGGGCTACAGAGCAAAACTCTGTCTCAGAGTAAGAAAAGCTACCACATGAATAAAAGATCTCAGTGT
CACCAAAGTCCACTCCTGCCAGCATCCCTTCCCCGCTGCCCTGAGTTTAAAAAGAGCAATACTTCCCAAACCTGTCTCT
GATCAAAGGAATCCCCAAGGGCTTCCTGAGAACAACCACAAAATGACTGATTCCCAGACTTTCCAGAACTGAATGTCTA
GGATAAGGCTCAGGATCTAAATTATTAACAAATACTCCCAGGTGAATGGGCTTGATTGGCCAAATTTGGGAGAATAATG
GAATACTGAAGAAAGCAGGTGAGAGGGCTGCCTGTGTACAGTGTTGTCATTGAGTTGATGATAGCTTGTTGGAAAATAC
CTGTCTTTCTGGAAAGTATATATAGTGACACCCACACCCTCATCTAACAAACAGTGCAGCCCAGGATAAGCACGATCAT
ATGTGCAAAGTGCTCCACGATTAGTGAAAGAAGATACAAGGTGATATTATTATCTGTGCTGACTTCGTCATCCTGGGCA
TCAGCGTCAGGGTCATCATCTGTTATCTCTCAAAATACATACAAGATTTTAAGTAGAGCAGCTTGCTCGTCTCTGAGAA
GAAAATCAAGTATCACATCTACCTTTGTGGATGTGGGAGGGAGGGAATTTGGGAAATGTTTAGTAATTGCATTCTTTTT
GTCTTCTTGGACACAGTACCAAGTCTCCTTAAACTAATAAAAGAAAAAAAAAAAAATAAAAGAACCACACAAACTGCATT
CTTCAGTCACTCCCTTTCTCCACAAAGTGCTTCCCACCCATTTCAGCCTTAAAAAATATTCTAGGCATACTCAGAAATA
CAGTGACTGTGGTGGGGCAAAATGTTGAAAATTCCTTTGAGGCTCATTTCCCAAATTTTACTAGTTGGATGTTACACTG
AATTATTTAACTCTAAATAAATAGGGAGTGCACTCACAGCGTCGTTTCTTTTGTTATATCAAAAAGCCTCTCTCAAAAA
ATGCTTTAAAAATCAGTTGGATATATTATTAATACTAATATTAATAAAAGTTAACATTTACTGACATTTGAAATGTACC
AAACACTCTAGATGAGTAATCTTTTTAAACCTTATGATATCCAAAGAGGTAGACACCGTTGCTATTCCTGCTTCATAGA
TGCAAAACTGGGCTAGACAAGTTGAATAATTTGATTAAGATACATAGGTAGAAAATTACAAAGTACGGATTGACTCAGA
GGGAGAATGTCAAGTCCTCTCCTAAAATGTACTGGCATGTACACACATACACAAGCTGCTGGATGTGCTGGTCCTCAAA
AGTTATTCCCTAGGGACATCTCTCTTCTTTTTTTTCTCTCTCCTTCCCTCCCTCTCTCTCTCTCTTTCTTTTTCTTTTT
TCTTTTGAGAACAGAAAACAAATCTATACCATCTATTCCTGAATGTATATGAGTGGAGGGTAGGACAAGAGGAGGGATM
AGATCTGTGGATGCACAGAAACTCTTTGGGAAACCCTAAAAACTCTCTATAGTTATATAAGCTAAGGAAAGGATTCCTG
CCAGGGGGTATAGGATTCTTCAATTCCCACACTTCTCTTCCTGACTCTTCTGAAGTGCCCGTTGTCACCAGAGTGCCCA
GGGGCAGAGCATTGACAAGGAAAGGCCCAGGTGTGTGTGAGAAGTCAGGCAGATGGGGTGTTTCGGAGGAACCAGGGTA
ACGCAGTGCTTCAGCGTTAGCACTCACCTTGCTTCTGGGACCACTTACCACGAAGGCCTGAAAGGGCAGGCCCCAACTA
CTGGGAATATTAATCTTCTCTTTGGGTGAAGTCTCTTCATGCCATTATCATCTCTTAGCTACCATTGCTAGGCAAAAGT
TTCCTAGCTCACCATGTCCTGAATGCACTTCCTTGAGATATTTCTGATGCTTAAATATCCAGTGCTTTCTAGTGTGCCG
TCTTCCTTCTGTATTTTTGTTTTGTTTTGTTTTGTTTTTTTGTGGTTCCTTTTCAGCACTGTTGGTCCTGTGGAAGTAT
TTCTAATTGACTGTATTCTATATGCCACACAAAACAGATGGGTGTTTATGACATTCTTTTCTGGATATGTTTCTGATGT
TTGCATATTGAACACAGAACTGTCCACATAGAGAACTTGATTTCTGCCTCTTCCTGGCTTTGCTTTTACTCATTTAGTC
CCTAGTATGTGAAAGGCTATGCTTAGGCTCCAAGGACCCAAGGATGAATAAAATACCTCCAGTAAGCTTCAGGACCATT
ACTCTAGAGGTTTGTGGAACTTAAAAAGCTAAAATGTGTTCTGTTGAATGACAAAAAGCATTAAGTTAATAGAAAACAG
AGGGCTTATAAGTGAATGGATAAATGAATAAGTAAAATAAAGAAGAGAGAAAGGAAGGGAGAGAGGAAGAATGGAGCAG
ATGCAGGTGAGATTGTTTTTCTAAAGAGCTAAGAAGCTGCCTACAGTGTTAGCTTAGAGACTGAAAATGGTTTGGGAAA
ATAATTCAGAAATTTAGGGAATACTTCACAGCATGAGAAAGTGGAGGGCTGAGATTGGTAAAAGAAGACATGTTTCAAA
ATAGCCAAAAGGAAAATAGAAAAGAACTGGTCGTGAAACCGAGACCTCAGAGTTGAATGACAAGTAAGATACCTCTGAA
GTCACTGACAGTGGACTGACTGTTATTTGACTAATATTGCTTCTACAGAGACAGACCTAGGTTTTATCCTCCCATAGAA
AAAAATCTCAAACATTGGTAGGTTTTGTTTTTGTGTTTTGACATACAAGTCAAAATCTATGTGAAGGAGGAGGAACAAG
ACTCAGGGGTCAGAAAATTGGGGTTTCGTGGCTGGCTGTCCTGCTCACCCACTTTACGTGTGACCTTAGAAAAGTCACG
CCGATGTGTTAGATCTTTTCTGTTAAAATGTGGTGGGTAATAATTATACCTTCCTAATTTTGAGGAATTACATGAGATA
ATCTGTGTAAAAAAATTAGCACGGTGTCTGGGACATAGTAAATGTCAGGTCTTATTTAAAAGCATGTGGAAAGTGCTTA
ATATGTTGAAAAGTATTATAAACTACCAATAAATATTATTATATTATTCAATTACTGTTGATCCTCAAAACAGCCATCT
CTGGAAACTGTGCAATTATTTGAGCCCTGATGCCATTGCTGAAAGCATTTTGGAAGTGGCTTTAGAGACCATTTACAGA
CCATATAAGACACACACATACCAAAAAGCAATAAGCAATCTCACTGGTTTATAGTAACACTTCACTTATGACCAAAAAT
ATTATTTCCAATATGATTACCAACCCTATTCACCAGACAGAATGTCAAATTAGCTTAGATGGGGCTAACTCCAGAAATG
AAACCATTCTCAAGGGATTTTAAAGAGTTTTTTAAGAAGTATCACATGGACTTTTAAGGCAATTCCAAGACAGGGAGCC
CTAAAATCATTACAATGATGGCAATGTGTGGAATAAGCATATAAACACATTTTCCCAGATGCAACTTTGAAGGAGACAA
AATCTGAATTCTAGGCAGTTTGTGAAGGAAAAGGAGCAATTTCTGGGAAATTTCTTTTACCCCTCAGCCAACCTCAAGA
CAGTCTGTCTTTCTACAGACCCTCCCTTGCTGTTTCTCTTTACTGGAAACTGTTGAGGGTACTGGAAATAAAGGAGAAG
GCCAATGTATCTAAGACCAGTGGATCAGAGAGGAGCCCAAGAACCTTCATCATTTCCACAGAAAGGGCAGCAGAGGAAA
TTAACCTGGCCTTTTGTCATGCTATTATTTCTCAGTGAGTCTATTAAATTATTGTGGCACACTAAACAGTGTTGTCTGC
ATCTTGTTCTTTGGGGATTCCATACAATTCTCCCCTTGGCTGGCTTATCACCTCCCCTTAGAAAATGGTGTCTCAGCAA
TGATCCTTTGCTTGCAATACAAAAAAACCAACTCTGCTCATTAATGCAAAATTCTTAGTGGAAGAATATAGGAAGAATT
CTGAATTCCCTGAGAATTAGTGGGGCGACAGGTGGTGGTGGGGGTGCTGGAGGACGAGGTTTGAAGGAATCAGTGCATC
TTTACAGTGCTAGAAGGCTACAAATCAAGGGGAAAGTCTCATGGCAGGAGTAGTCGAGTGAGATCCCCACAACTGTTCT
TAGTTTCTTTGTCATTATTTCAAGAGTCAAACAGCAGTGAAGGGATCTAATTTGTCTTGTTTGCGTCCTGGGCCTTGGC
TAAAAGAGAACAGGCAGGTGGCTTCAGTTCTACCAAACTATGTTATAAAATGTGGTAGTAAGAGCTGAATGATGGGACC

Fig. 6.309

AGATTTTGTGGGTTCATATTCTAGCACTACGACTTACAGATGCTTGTGCTCAAACAATTCATTTAACCTTCCAGAGCCT
GAAATTCCTCACTTTTGAAGTAAGCACAATAATAATATTTATCTCATAGGGAGTTCATGAAAATTATTTGAGGAGATAT
TTATGAAAGGCTGGGCATGGTTTGCTCACGCCTGTAATTCCAGCATTTKGGGAGGCTGAGGCGGGCAGATCACCTGAGG
TCAGGAGTTTGAGACCAGCCTGGCCAACATGGTGAAACCCTGTCTCTACTAAAAACACAAAAAAATTAGCCAGACATGG
TGTTGCACACCTGTAATCCCAGCTCCTTGGGAGGCTGAGGTAGGAGAATCACTTGAACCTGGGAGGCAGAGGTTGCAGT
AAGCTGAGATCGTGCCACTGCACTCCAGCCTGGATAACAGAGGAAGACTCTGTCTTAGGAAAAAAAAAGATATTTATGA
AAAATGAAGCAAAATGCATGGCTCACAGTAAGCACTTGATCATTGCTGGTTAACTATTATTAAGATTATCTAATAGGGA
TACAAAGTATATTCCTGAAAGAAATTAGGGTGCTCTTAGATAGGGGAAATAAATGCTAGTAGGATTGGTTTCAATGCAC
TATTTATTTTATTAATTTATTTCTCACTGAATTTCTTTTTATGATACTCATTTTTTTTAGAGATCCAGATGGTACCTGT
CATTAATGTATCCCTGAGAACTCAGTTCCTCTGAAGGCACAAAAATAATTTGACCATCTCATCATTTGATCCACACACA
TTTATTGATGCCTCTTTTATGCTTGGTTCTATACAAGACGCCGTGACGTGTGGCCCCTGTAGGAAGTCCTGGCCTCTGT
CTCTAAATCTGTCATCTCAGCCCAACCCCTATTCAGATTATCTGTGCCCTCTGCGTAGCCATTCACTTCGCCTGGGTGC
AATCATGCCTTCCTTACCCAACGTTTAACAAGTCCAGCCTAGCAACCTACATCATGCCATCCAACAGAAGGAAGGCATT
ATTGACTCAGAACAAAGTATAGGCGCTCTTAGAATAAGTTTATTAAATCATTTTTTTAAAAAAAAGATATGTGCTTTTT
CCCAGGGGAGCAGTGAGGCATTGTCAGAGGGTGGATTCATTAAATCAATACAGAGAATCCTGGCTGCACTATTTGTTAG
CTATTTGACTTTGGGAAAGTTATTCTCTGAGCCTTGATTTCTCATTAGAAGACGGGAATAATAGCAAACCTATCTCAGA
GCATTAAGTAAGAATTAAATGAAGTGAATTAAGCACGAAACCTAGCATCTGACGCATAGTAGGAACTAAAAAAGAAATA
CTAGTTCTTGAATAAACATTTTTTTCTTGACTGTACTGTGATACTTCCATCAGTGAGTTTCCAAGGCAAATGAATCATC
TTTAGAATTGGAAGCTCAATGTAAGCAACAATGAAGTAAAGAAAACAACTGAATTTCTCTTGAAATTATTTTCCTTTAC
TGACTTGTCTTTATTGTCTGTGTTCACAAGAAACTAGCTCTGACTGCAAAAATGTCTGCCTGTTTCTATGGCCAGTTCT
TTTCTACATGTTTAAATTCCTAATTGTGCACACAATCTTAGTCACAATATTTTCATGTGCAAGCAATTAAGACTCATTT
AACAGCCCTCCCTCTGGAAGGTTTTGTTCTCCATCTGCCACAAATCAGATTCCTTAGGAAGATATTTGATTTTGAAACA
ATGTTAAAGTACTGTTCATTTTGTTCAAATTTCATTTATGTACCATTTTTTAAAGTGATGTAAATGGACAGCCACAAAA
AGCTCAGCAGCTGGTCAAAACAAAACATCAAAGTCACCATTGAAATGGGGCAAAAAAATTAAAAACTAATATGCTGGGA
CAATGCCAAATAAAAACGATAGTCTGATAAACATTCCTCAGACACATTTTGCTCATAACAACTATTTCCTTTACAGCAG
ATTTAAAATATGGGAAAATAGGAATATACCCCAGTTGCCACTCTGAATCTTAGCTGTCCTGAGTTCACTGCAATGTATA
TAATAAGGAAGTCAGAAGGTGGAAAAGAGGAAAAGATTAAATTTGTAAGTTTTTTGAAAGATATATGGTAAAAAGTAGA
GGTATCCAACAGATTTGTACGATAGATTGTTCATTTAAGGACCAGGAGCGGTGGCTCACGCCTGTTATCCAGCATTTTG
GGAGGCCAAGGAGGGGCGGATCACCTGAGGTCAGGAGTTCGAGACCAGCCTGGCCAACATGGAGAAACCCCGTCTCTAT
TAAAAATACAAAATTAGCCAGGCGTGGTGGCACATGCCTGTAATCCCGGCTACTCGGGAGACTGAGGCAGGAGAATCGC
TTGAACCTGGGAGGCAGAGGTTGTGGTGAGCTGAGATCGCGCCATTGCACTTCAGCCTAGGCAAAAAGTGAAACTGTCT
CAAAAAAAAAAAAAAAAAAGATTGTTCATTTAAAAATCAATTCGATTGGCCAGGCACGGTGGCTCACACCTGTAATCCCA
CAGCACTTTGGGTGGCCGAGGCAGGCGGATCGATTGAGGCCAGGAGTTCAAGATCAGCCTGGGCAACATGGTGAAACCC
CCGTCTCTACTGAAAAAAAAAAAAAAAAAGTAGCCAGGCATGGAGGCATGGTGGCACATGCCTGTAATCCCAGCTACTTG
GGAAGCTGAGGCACGAAAATGGCTTGAACCCGGGAGGCAGAGGTGAGATCATGCCACTGTACTCCAACCTGGGTGACAG
AGCAAGACTCTGCCTCGAAGAAAAAAAAAAAAATCAATTAGATAAGTGAGAGTGTATATTCAGGGCAACTTAAATCTATG
CTCTCAGATTAAAAATAAGATTTAATTACAATTTTTTTTTTTTTTGATGCAGGGTCTCACTTTTTGCTCAGGCTAGATT
GCGGTGGCACAATCACAGCTCACTGCAGCCTCGACCTCCTGGGCTCAAGCAATCCTCCCACCTCATCCTCCTGTCTACC
TGGGACTACAGGCACATAGCACTGCACCACCATACCTGGCTAATTTTTAATTTTTTTTTTTTTTTTTAGAGACAGGATC
TCACGATGTTGCCCAGGCTAGTCTTGCACTCCTGGGCTCAAGTGATTCTCCTGCCTTGGCCTCCCAAAGTGCTGGGATT
ACAGGTGTGGGCCATCACACCCAGCCAATTTTGAAGTATTTAATTTTTAAAATGAAAAATTGATTAGATAATAGTTCTC
CCTCACTACAGGTGAAGTCTGTTTTTATTTATTTGTTCAATGGGCTTCTTTAGAACATGACATAGAAGGCAATCCTTGG
TCAAATTAAGGCAGAAACAAGAATTTATTAGGTTCTGAACATAAATAACTGTCTGTGAACTGGTAACTCTCTAATTAAG
CATAAATGTGAAAAGAAGAGGATTAGCTCTTCTTGAGGAGTTGGAAATGGAAAATATTACAATTTGGAGAGGTAGCTTG
CAGAAACCGTACAGTTTTCTCTGCTTATATGCCCCAGCGTTGGGAGACTTGAAAGGAATCACCAACCAAGTTAATGCAA
TAAATTTCCATATATAGATCAATTGGATGTTTTGTCCCCAGCTTCCTAGGCCTTTAATAAACTGAATTGTTTTGGTATC
ACTGGATGAAAGGTTCTGTAAAAGTTCAAAGTATTGTTATTTGGGGCATTCACACCTGCATGTTTAAAATGCCTTTGTG
CAGAATGTAGTCCAATCTGCTTTCAAATCAGACCTTCAAAGAAGGGTAGATTCATCCATGTGACAGATCCCCTTAGGTG
CTTCTCTAAAAGAAAAAGTTAAGCTAGCAGGTCTACCCCCACTCATTATCTTTGTCTCTTTGTGCGTAATCATCAAACC
GCACCTCTGAAAAGAAGACCAAGAGAAAACTTTAGTATCTCTTTGCTGGAGATGCAAAGCAAGATATAGAAGGAACTGG
AAAATAGTTCTTAAGTAAATACAGGGGGAAAACGGAAATTGAGAGGACGTACTTTTCGCTAACAGTTGTAAACTAAAAA
TAAAATTTGAAGCACGCCTGCACCCTCACCTGAATGGACTTCCTCCTTGGCCAGGGCACTTTAAAATTTAACCTGAAAG
ACTGATTTAGGCCGCAAAGGAAGTCAGACATGCCTTATTTTACCCCTCCAGTATTAACATCACCACAGACCTTAAGTCT
GATAAGAAACATTTAGGATCTCTTTTCTTGGAAGCCTGCTACCTGGAGGCTTCATCTGCCTAATAAACCTTTGGTCTCC
ACAACTTTTATCTTAACCCAGACATTCCTTTCTACTGATAATAACTCTTTCAACCAATTGCTAATCAGAATATGTTGAA
ATCTACCTGTGACCTCGAAGCCCTCCCCCAACTTTGAGTTTTCCCGCTTTCCAGCTTTCCAGATAGAACCAGTGTAAAT
CTTACATGTATTGATTGATGTATTATTTCTTCCTAAAATGTACAAAAACAAGCTGTAGCCTGACCACCTTGGGCACATG
TCTTCAGGACCACCTGAGGCAGTGTCACACGTGCATCCTTAACTTTGGCAAAATACACTTTCTAAACTGATTGAGACCT
GTCTCAGATATTTTGGGCTAACACAATGAATATGAAAAAACTTTTTTGTTGGCGGGGGTGGGAGGTGGGACGGAGTCTC
TCTCTGTTGCCCAGGCTGGAGTGCAATGGCGCAATTCGGCTCACTGCAACCTCCACCTCCTGGATTCAAGTGATTCTCC

Fig. 6.310

TGCCTCAGCCTCCTGAGTAGCTGGGATTACAGGCACACGTCACCATGCCTGGCTAATTTTTGCATTTTTAGTAGAGACA
GGGTTTCACCATGTTGGTCAGGCTGGTCTTGAACTCCTGACCTCATGATCCACCCATCTCGGCCTCCCAAAGTGCTGGG
ATTACAGGGCGTGAGCCACCACACCCGGCCAAAAACAACTATTTTTAAAGAGCATCTAAGCTCAGAAATCACAGGCATA
TTACGCCTGCCACTAAGGGAGTTAGTTCCATTGAAGGATATAATTAAGAGTGAAATGAATGGTGTGCTAAGCACTTAGG
GATAGTGGTTCACAAATTTGTCTGTTCCTTAAAATCACCTTGGGGGGCAGGCGTGGTGCCTCACACCTGTAATCCCAGC
ACTTTAGCAGGTCAAGGCCAGAGGATCACTTGAGGCCAAGAGTTCCAGACTAGCCTGGGCAGCGCAGTGAGATCCTGTT
TCTACAGAAGATAATAATAATCACCTGGAAATTTCTTTTTTTTAATGCAGCTAATGAAGGAAAAAAAAATCCGAGGTTT
TGAAACCAACTCAAAGACAACAGCGATATTCAAGCATAAGATGTAATAAAGGTTGTACACTAGATAGCTAGATAGCCAG
AATAAAAAGGAAGAGATAGTTACAAAAAATATAAGGAGGATAAATGTATAGGATTTCATAACTGCTAATCATATGATTT
TACTGAGTAGGTGTAAAATGCTTCTGATAATGTGTGAAAATTTATAATCCTTCGTATTATATGTAGGATAAACATAGGT
TAAGACCTGGATTCTAAGGCTGAATTTAAGGCTAGTTTATCTCCATCCTTAGATTTCCTACATTTCATTTAAGAGAAAA
TGTCCTGTATATTGAATATTCATGAAAATCTCTGAAAGGTGTTATGCTTATTCTTAACCTCTTAAAGGTGTACACTGAA
TGTAATTAAATCATTTTTGCTGGCTCTGGTTCCTCATGAACATCTGCTTTTGTACTTCCCTGTCATTCACAAATGCACT
TAGGAGCTAATGATCTATGAGGACTTTTTTTTCCCCTACAGTAACGAGCAGCAAATCTGGCTGCACTTTAATTTCTCAT
CTGCTGTCCCATATTGTCTGGTGGTCAGTTCATGATGTTACTAAGCTTGGCTTTATTGGCATCTTTTGTGAGCTGCTGC
TGCTTTTTCCTTGGCAAACCTGATTACCAAGCTATTGCATTGAGCATAAAATAAAGGTAAATTAATTCAAAATAAAAGT
GAAGGTTGAGGGCAATTCATTTCTGAGGTAGACCTTTAGGATATGAGATGCATAAAGTGAACAAGATCCTACAAGTGTT
TACTTGACTTTTCTGGGTTCTTTTCACCTACTTACTGATTTTGAATAGTATAAATTCCTGGATAATTAATCTGGATAAG
TAAGTCGTCACTGTACCTCTAGAGAAAATAAAATCAACCAAAATATGTTTAATTCTGTGCTCTGGGTTTCAAGAAAACA
AAAATGAATAAGATATAGTCCTACCCCCAAGGACTTGACACAATATAATTGTACATGTGCAAAAGAAACTGTCTAGGTG
TGGTGGCTCACACCTCTAATCGCAGCACTTTGGGAGGCTGAGGCAGGAGGATCACTTGAGCCTAGGAATTTCAGACCAG
CCTGGGCAACATGATGAAACCTTTTCTCTACAAAAAAAAAATACAAAAATTAGCCAGGCATGGTGGCACATGCCTGTAG
TCCTAGCTACTGGGGGAGTTGAGATAGGAGGGTTGCTTGAGCCCAAGAGGTCTAGGCTGCAATGAGCTATGATCACAGC
ACTCCAGCCTGGGCAAAAAATCTTAAGTAGTCTCAGGACTGTACCACAGAGTATCGTAAGAATTCAGAGGAGGCAAAGA
CCAAATTAGAATAATAAGCACATGAAGGCTTCCAGCAGAACATGGTATTTTTGTTGGGCCTTGAACACTCTTTAGATGC
TTTAGTTTAATGTGCCATAGTCACACTTTCTGTATTGGGAGTGTTAATGGGTGATAACTACTCCAGAGCTTTAGGATTG
CTTCCAGTATCCCAGCAAAGCAGCCCTTTTCAACTAGAACCGTTTGCTATTACAAAAGAGAGGTGATCACTTGTGATTT
CTTAACATTTCTTCACTTTGCCTCTGGCACTGGGCTTCTGAAAGTCCAGGAAAGAGCAATGACCTCAGGGTTTTAAGAC
CAGGGGTATAATCCCAGCTCTGCCTAGCTCTCTGTGTAATTTTTGGTCAGTAATTTAACCTGGGTTGTGTTCTGTAAAA
TGATGATATTGGATTAAATAGTACCTAATCATCTAACTTTTTCCTAATATTTTATTATTATAAAAAAATGCATGCCTCT
GATGAATTGCCTTTATCTTCTTTAGTCATATTTCCCTAAGAAGTGAATAAAAGATACCAAGGCAATGTGTGAATTCCAC
TTTTTCCAATCTGGATGTTTAGGGGATATCCTTGACACCATTTGCTATTTTGAGTTTTCAACAAAGAGTTAAAAGAAAA
TTCTGGCACTCCTATCTAGTCATCCTCTCCAGTTGGCAGAAGTCTTCATGTGGACTTGATGGTTGCCCAGAGCAACAAA
ATATTAGGGACAGAAACATGTTCAGGGACTCGATTGTATAAGTGACTCAGAGCTGAGAGACCTTTTCCAGCTTGACTGC
AGCCCATACTTAGCTAAAGTGGGTATTTGTCTATTCCTGTCTGCATACTGTGACTTGGAGATGCCTATTATTTTGCTTG
CTAAAATATGGAAGCCAACCTTGAAACTGGCAGAGAAGAGTTAAATGATCAGAAGGCAATCGTCTTCATTCAGCACGTC
TGACACATGAAAGATCATTAGGACTAGCAAATATAAACAAGATCAGGGAGTGGTCTTGGGCTTTGAAGAGCACATACCA
AGAACATCAAGAGAACTCAATATAAATTCAATATAAAAGCTACTATTCAAGGCCAATTATCTCTTTTGAGTTAGAAGAG
CCCAATGGAGAGCCACTCACGCAAATCAATACCCTTTCCTTCTCTCAGTTGGAGCCAGACATCTCTAACTATCCTCTGA
ATTAAACTGGATTTTTAAAATGTTTTTCTGTCCCTAAACTCTTTAAATCCTGAGGTCATCCTTTCTTTGTTCCATCAGT
CTGGCTCCATGATACCAATTACTCCAGCTTGTTAAAGCAGTTATTGGCATATGGTAGTCATGTCTTTTGTTTCTATGCA
ATGTTTCCTGGAGCAAGAATTGGAGGGAGAAGTATTAGCCAAGTCTTGTTGCTTTAAGTCTCCTCTCTTCAACTGTTTA
ACTAGGTTCCATCCTAATTATGTGTTTGGTTGGTTTTATTTTGATACCCAATATACATTCTTCTCATTTGTACATRAAC
AATGTCATTATGGTAATAATAACAATTATACAATATTACTTTCTGTCCTCATTGAATGTCATTATGATCAGGAGCTGGT
CCTCTTGGTTTGGACATTATWATTTGAAATGAATATTCTTTTTAAATGATTGGAAACTTAGTCGTAAATTCAAGTGGTT
TACAATAGTAACTCTTATCCCAGTAACCACAGCACCTGTTTAGAAAAATGTCTTCGGATCACTTGTTTGCAAATGTCTT
TTTCCTTAGGATCCTGGATGGAATTGAACCCATATACGTTACTTGACATGTGAAACACGTGTGACCCTGGCAGATGATT
TGGCTGACCTTGAAAACTACAGCTGTTTAGTCACTTTGAAAACAATGCAATACAAGTGATTTACTAGGCTTCAGTTTTA
ACCATTTTATGCTGACTGGTGGAAATTCTAACCCTTCAGAAAGAAAAAAAAATTGTGAAGCAATGGAAATGTACCATCC
TGGGTATTAATGTCATTAATTTTCAATACATTTTCTCACAAAAAGTATAAAGAAGTCTTTGCTTGACCTTACGGAAAA
AACAACATACATGTGGCTTTATTTTGCCTTTTTTTTTTTTTAATTAATGAAGAAATCCAAGATTTGACTTTTGTTTCTT
CTCTACCCAAATCAAAAGCAGTCTATAATCTCCTGCAAAGATCAAAGCTTTTTGCTTACTATAAAGTATGTGCCCTGCT
TAGGCATTACATGGTAGAAAGATAGCATTCTGTTCCAAGAAATCTCTATTCGTTCTCTAGTTGCTGTGTATATATTCTC
TTTTAGCTAGAATATGGTTAGTAAATGAGTCCTGAAAATTTCGCTGTATATACCAAAACATGTTGTATACCATAAATAT
ATAAAATATTTTTATTTCAATTTTTTAAAATTGTGCTTCAATCAAGACAGAAGTTGATTTCTTTTTCCAGAAATTCAGA
GTGAGCAGTCCAGGGCTGCTGTGGCTGCTCTAAAATCACCAAGGGCCCAGAGCTTCTTTCAGATAATTTTTTTTTAACA
TTTACTAGATTCATAGGGCTTTTGTCTTCATGGTCTGAGATGACTACAAGAGCCCTAGCCATCACAACTAAGTGGCCAG
CAGCAAGAAGGAGGAAAAAAGAAGGAATAGTACACCCACTCCTTTTAGAAAAGGCTTCTGAGAAATCCCACATAATGCT
TCTACTTACATCTCCTTGGCTCAAATTTAGTGTCTGCCACAAAAGAGAATAAGACACACACACACACACACACACACAC
ACACACACACACACACACATATATATATATTTTTWTTTTTTCTGGCAAGTCTCTAGTTCAGGGATTTCAATCTCCTTTA

Fig. 6.3J

AGCAAATGAGTCTTC[illegible]GCTAACCTCTCCCTCTGGCCTGCCCAGTCTCTCTCGAATCTCATTGCCATCCTGTCCTCCTT
ACTCACTTTGGGAAA[illegible]CCAGCTCTGTCAGTTTTACAGTCTGCCTTTTCCACTTCCTTACCTGA[illegible]TTCCTGGGAAAAAT
AATCCCACATCACTTCAAGCTGGAATTCCAACAAAGTCAAGACCTGTCACCTCATCGGACTCTCAGAGCACTTGACAGT
TAGTTCCTGCTGTGCCCCTCTCTCAGTCCTCTTCATGCTAATTCCAAACCTGTCCTCTCTCTTAAGCCTCCCAAACCAG
CAGCTCTTCATCTCCTTTCAGCAAATAACTTGTTGCTTTTTGAAGAAAGTCTGTGTCAAGGCATGAACTTCCTCAGCTC
CTACATCCTCTTGCCATAGATGTTATCCATAGGTCTCTTACTGACATCCATAATCCCTTCCTCCCTTCTGGTCTCAGCG
GATGACGTTTCCCTTCTCCCTCCTGCTCTAAGTCAACCCCTGCATCTGGGCCCTTGATCCTCTCTCCTCCCAGCTCCCA
CAAGTCCTTGCTTCGTCTGTTTTCCTTTCTATCTCTCACATCTTCAATCTTTACTTTTATTCTGGCTCTTTCCCCATTC
ATGTCTCTCACAATCTTAAAAACAATACACAGCAAACCACAGCAAAGTTCAGCCAACTCTTTATTGATCCTTTAGCTAG
TTCTTGATCTTCTCTTTTCAGTCAAGTTGCTCTACCTCCTCATCCCTATTCAGTCTGCAGTCCACTGTAGTACGACTTT
CTCACAACACCTCTGTTCCAGCTGCCCTCCCTTGGTTGCCAATGAACTCCTAATTGTCTTCTTAGTTCTTAGAGGCTTC
TTCTTCTTAAACTCTTTCTTTGTTCATTTACTGAGTAAATATTTATTCAACATGTTTTTGTTGGGAGCCATTTTGTTCC
AGATGTTTCCACACTCTTCTTGCTGCTCTGAATACTTCTTTTCACTATTCTTCATGGTCTCTCTTCCTCCCCACTTTAC
CTCTTAAATGTGAGTATTCTAGAATGTTCTTTTTGATTAATTGGT[illegible]TCTCACTCTGTGTACTCTGTAGATGTTTTCAT
GTACCTCATAGTTGTATTTTCCATCTTATGAAAGTGGGTCCCAAAACTCTGTCTCTACTCAGAGTAGGCACTTCCCCAA
TTTCCAAATTTATTCACACAAAAGCCCAATGTCCATTGATATCCAACTCTTCAAATCCAATATGTCCAGAGCTGGACTC
ACATATTTCTTTGCAAATCTGTTCTTCCTATCTCAGTTAGTGAAACACTTTTAGCCAAGATCGAAACTTATAAATCATG
AATCCTTCTACCAAATCTATCTGTCTGTCTATATATATTTTTGAAACAGAGTTGTCTCACTCTGTTGCCCAGGATGGAG
TGCAGTGGCAAGATTTAAGCTCACTGTAACCTCCACCTCCTGGGTTCAAGCAATTCTTGTGCCTCAGCCTCCCAAGTAG
CTGGTATTACAGGTGTACACCATCACACCCAGCTAATTTTTGTATTTTTAGTAGAGACAGCGTTTCACTATGTTGGCCA
GGCTGGTCTCGAATTCTTGGCCTCAAGTGATCCTCCTGCCTTGGCCTCCAAAGTGCTGAGGTTACAGGTGTGAGCCACC
ATGCTCGGCCCCAAATGAATACAATTTTTATTTTATTTTATAACTATTGATCAAATCCATGCTCTCTTCTCTAACCTGC
TAATATTTCCCTAGTTCAAGCACTCACCAACTCTCCCCTGAATTATAGTACTAGTACCTGAAATAGTGTTTTTGAAACT
GTCAGTTGCATTTAGCATTTTATTTTAAAAATATGATACAGAATTGCGTAAAAAATAAGAGTATAAAACCACATCTATA
ATATCAAAGATAAATATGGTTTTATAAAATTATTGATACACCCACAGACATGCAAACACACACAGACATTTTGCCATGA
AAATGTATTTCTTACTATAATTTTTAAAATTAGAGAACTACTTTCTTAAATGGTCGATCTCTGTTGCACCTCTTCTTAG
CTCTGGCCTTCCATGATGCCAGCAAATTTATGTAGTTGAAAAATTAATCTGCAAATGTCACTCTTCTTAAAACCTTTTC
AAGCCTTCCCATCATCCATGATAAAATCAGATCTCTTTCGTGTGGTACCCAAAGCCCCTATCCAGATATGTATTGTACC
TCCTCTCCAGCCCAGCCCCTGGCTGACTCTTTCAGCAGCAAACTTTTTCCACCCACGTGCACCATGTTTCACAACTGTC
TTCATTTACTTGTACTCTTCTCACCATCTAAAACTCGCTTCTCTCTCATAATTGCCTGGTTCACTTTATCTCATTTTAG
AGGACACCTAAAATTCAAGCCCAGTCCCCTTCCTCAGGCCGAGTCAGGCTCTTCTCCCAAACCTACCTCTAGCATAACC
TAATGAAATTGCTCTAAAAATTATGGTCTATGCCTCTTTATTAAAAAAAAACAACAACAACAAAAAAAAAAACCCTGCC
CACCAGTATAGCAATTCTTTTGTTATAACCACACATAGTACTAGTGTGTGGTTCTGGGGCACTGTCATGCCAACTTACC
TGTGTTCAATAGACCTGAAGTAGGGAAGATCAGCTGACTCTTTTACATCTCTTCTCAGAACATCTTGAAATGATTCTTG
GGTGCAATATAAGAGCAAAACATGGAACAGTAGAAACCAGCATGGAAAACTTTTTCTCCTATTTGAGAAAGTGGGATGA
AAATGTGTCTCTTAATCCCTTTGGCAGAAGGGAGTAACTTGAAAGAAGTGGATGATGGATGATCTTCTCCACTCTGTCA
GCCCTCTGAGCAGAATGAGGAAAATGTGAGAAGCGATACCATTGCTATATTTGTTTCATTGACCATTATTTTAAATAAC
TTACATGGTCCTGAACAAGGACATGTTTTTGTGAAAAGGACAACATTTCTTTTGGTGTGTCCGAGTAGCATTTAAGAAA
AGCCTTATAGTGGTCAATGAAGGTTGGCCTTTCACCCGCTGCTACTGGAGAGTCTGTGAGAACACTATTTATTCAGCCT
CATGGAAACACTAGGGAGTCATGCCTGGGATCTGACAACTGTGCAGCACCATGCCAGGTGCACAGAGAGTTGTTGTGAT
GAATGTCGAGAGAGGTGGTGGGGGATTTTTGTTGTTTTTGCTCCTTCCATTTTCTTTCCCTCTGACTTGGGCTGTGGTT
TCATTCATTCTACCTCCCCACCCCTATGCAAGAATAGATCTCTGATCTCTTTCTCATACTTTATCTGCCCTAACTTCCA
CTTTCCTTTTCTTGAGAGGAGAAGAACAACTCCACAGTGCTTTCCTTTTATGTTTTGGGCTAATTTTGTTGTGTTGTTT
TATGGTCTTGAACTGAGAGCTGCCTCAGCACTCAACACCAGCCCCTGGACTGTGAGACTAATGAGAAAAGCAAAATGAC
TTCAAGTAAAAGGAAGTGGTTTGTGTTGTGGAGAGAAACTTGGAAAGAAACACCACCAAGAACACTAGGGGCTTTATTT
TCCCTAAAGCCTACAGTTGGGTTAACACATTTCAAAATAACCGGTCAATTTAGTTAATCCCATCAAACGACCTAGTCAA
TACAGTAAAGAGGTAGGGCAAATAAACAAACCGTTTTTTGGATGACCGGTTTAGCTTCATGTATCCTTCGTCTTACTCA
TTTCTAGGGAATAATTTCAACTCAAGGAAATGTGAACATCTGTTTTGCAAACTATTACAGGCTGGTTTAATACAAAAAT
ACCTTTAAAAAAGGTATGTTCATACTCAACATGTTTTTCCAGCTGTTATTAAAGCAGGTAGAAACAATATAGTAGGCAT
AGAAATCTTGATTATAATGTGGAAAAACTAAGGTTAAAATTATTAGCAGAAATACATTTCTTTTCCATCCTTCCACTGT
CTGAACATCTCTCTTTCCTACTTCCTCCATTTTATTATTTTCTTTGCTTTGTTTCTCTCTTTTAACCTCAATAATAACA
ATTCTGTGTGCCAAACACTGTGCTAAGACTGGGCATGCATGATCACATAAGGTAGGTAAAATTATTATTCCCATTTTAC
AGAAGAAGAAACTGAGGCTCAGAGAATTTAGGGATATGTCCCATGGTCATTATTCTGGAAAGCTGTGGAGCCAGGCTTC
AAAACTTGGCAGTTATATTTCAGATTCCACACCCTGCAGTCAACACTCTGCTGCCTCCCTCAAATTTTATCTCAGTTCA
TTTGTTTTCTCCGATCTTCTCCTTTTCACATGTTCTCTACTCTATTCTCTTGCCTTTTTCCTTTCCTTATATCTGCCTC
TTCTTTTTCCAGTCTCTTCCCTCACTCCTTCCCTTATTTGTCTTGTTTCCCATTCTTTGTCTAAATCTCCTCTTTTCTC
TCCCTCTTCACCCTATTCATTCCCAGCTCCCTAAAATTATATCATTCTTCCTTCATCATGCTCCCTCATTCCTCACTGC
AGCATCACCCAGTCCAACTCTGTCCCATCTGTGATTCCTCACTTCTGCTTTCGCACCATCTCTCTCCCTAAGGTAGAAG
TGGTGCCCAGCTTTAAACACAAGGCAAAGTGAGGGTATGTTCCACTAGGACAGCGTGTGTCACTCTGCTGCCATACACA
GGGAGTACCATCAGTGATTATAAAGAGGAATTTCATTCCTGCCAGAGAGCTCACAAATTAGGTTATTGTTGATGTTCAT

Fig. 6.312

ATAGTTTTTAGTGACTGGAAAAAGATAATGCCTCCTTCTATGGTCACTACCAGGAAGTGAGCTCCATGCAGCAGACAGA
AACCAACCAGATAACTGTGAGATCCCAGCCAAGCACAATTTCTACATGTTAGTCAATTGCAAGAAACACTGAGATGTAA
TGTAGTACTTTGGACTCATATTACTCAGGTGACTATGTTTTCAAGCAGCCAGTACAGGACAGAAGAGATTCATTTCCTT
GAATCAAAGCTATTTGGTGACTTTTCCTGGAAACACTCTGAGGCTTACAGGAAGGGATTCCAGATTCCCAAGCTACTGG
CACAGAGTAAGCATCTTTTCTTTACATAGTAATTCACAAACGTCCCTCATCACCATATGACAATATCCTCACTGGATCA
GCTCGGTTACCAGAAATAACTAGATCAAAATAAATGTCATTCTCACATGGACACAGGTGGACTAGGGTTTAGAAGTTTT
GGGAACCATCACAGTTCTAGGCACCTGAAACTTCTTCTTTTGCTTGTAGTAAATATGGTGTCTTTCTCAGGACTCTGCC
CTTTGTTTATTTATATATCTGGTCTGGTTTTTGTTTTCTAGAGATAGTTCTCTACTCTCCATAGTGTCTGCTTTCTCAT
TGCCTGAGTTTGTACATGGCTTGCCATAGCTTCTCTAGGCCCAATTTTAGGCCATCAGTAGATTTAAAAATTTTTTTTT
CTCTTGACACCAATTACCTTAGTTGCAATTTCCCATTTATAATTGCAACTTGAGCCTACAAATTTACAAATACAATGAG
GTAACTTTCCACTGTGGTTAAATATTATAGATTATTGGCTGCTGGTAAACCCATGAATTGCCTGCCTTTGGATTAGATA
TTCAGACCAGGTCCATTTAACAATTCAGACATTTTTTTAAACAATACTTTTTTGAGAGTCTTCCATGTGCCAGGCCCTA
ATCAAAGCTCTTGAGATACATTGATGACCAAAAAGAAGCATTATCCCCATTCTTACTCCTTATAATCTAGGGTCCAGCG
ACASGGCGAGATATGCACTGTATTAATGAAATAATCTGTACTGAATGTAAAATTCCAAACTGAAGCATTTTATATGAAG
GAAACATTCTMTAAAGGAAAAGTGCGGAAGGCCCCCAGAACGTTCCAGTCTACACATGCTCCTGGAATTTTATGGGAAA
ATAAAAAGTCTGTCAGAATGGATCTTTTGAGAAGATTCCAGAAGTATGTTGGCCAATAAGAGAAAATGAGCAAGTGGAT
GCCAGAAGCCATTTCTTCCATTGTTGTGCTCAGTTTGCAGTGATACTACTGCAGAGCTTGAAAGGCAAGTACTGGCTTC
TCTTCCTCTTGTTCTTCCACCCAGAAAAACCATCCTTATCCTCATATTCCTCCTCCACCTTCACCACCACTACTACCTA
TTTTGAGGCTGCCACCACCACACTATAACATATTCCTCCCCGCTCTAAGGCTCTGAATTTGGACCTCCCACATGACAGG
ACTCTAAATAATGACTAATCCATTAAGTTTCTGCTCCATTTCCAAAATATTCATTCAAATTTGAAATGCCTGGGGCCTC
TTGTGTAGCCATGGCTGGGCTAATTTCTGCATTTGCATTTTAAACACCCTGAATCAGGATTACACCTGAAGACTTTCAA
ATAAGTGCTTAGATGGCACAATAAAGATATTCAGGTTAAAAAAAAATCTAATGAGTCTGTTGTTCCTTTGCAAGGCCTA
GTGATAGGAACCTCTTCTTGGAAATATTTGTTAAGCCATTCTCACTTGTAGTCACTCTTGGTACCAAATCTGTTGACCG
AAAAAAAAAAAAAAAAAAAAAAAACTCGAGGAGAGAGGGAGAAAGGCAAAGTTACTCTAATGTTTTAACTAACCCATAT
AACCACGGAGAACCAGCCCTAGGAACCAACACTAAAATCTTAAGGACTGTTTTTTCAGACTCTGAAAATTCTCCTAAAT
CTCCATTCCAGTATCATTCAAGCTCTTTACAACCGCTGTTTGTCCTTAGGCTGTAACTTGTGCCTGAAATCCCACTCTA
AGGTTCCCTTGTGGTATTTTTAATAGTGTTTGATGCTGCAGCCAGCTTCTCTGCGGTTTGGGAGTTAAATGGGATACAG
CAATGTGGTGTGCTGTAATGGCTCTTGGAGAAATGTTAGGGCAAATTAAATTCCAAATAGGATAGCACCTGAAAGAACC
TGGTCCTTTAGTGAAAGAGCGTAGGAAGGAAGGCTTAGAGAGTCTTACTGGCTCCTAAGTGATTAAGAAGAAACATCTA
ACCTGAGTTTGAAATTCATTTTGGACTCAAATACAGAGTATTTACTTTAAGACACTGGTCCTTAACCACCTGGTTCTTC
CCTGTTTGCTTTTCTGCTTAGTTAAGCCCAAAGATGGGTGTTAGTTTAAGAGAAAATGGTACTAAAAGGGAGGAGGGGA
ATAATTAACACCTTTGCTTAAAGCACCAAATCCCATGAGCTGATGATTGCCTAGGTTAGGCAATGACTACTACCACTAC
TACCAAACAGGTCTGGCATCTCCTATTCCTATCCTGACACCCAGGCCCAAGCTGAGCACAAGCATTGCAGGATTCCGCA
GCCTAATGTCCGTCAGCTTTTCCTTTGAACAGTGGTTACATATCGTTAGTGTATTTGAGTCAAATGTGGGTTTAAGGTA
GTGGAAAGACTTTTTTCTGCTATTGAGAACAGAATCAATTTTTTAAAATGTGTATGTACACACACAGATACACACACAC
ACACACACACACACACACACACACACACCGCTATATATTTTATTTTGGAAAACAGTTTTATTTCCASTAGATCTTTATT
GAATAACCTATCATCTACGGAGTTCCTATTTAAAAGTTTTCATTGGTAATGGATTTATTCCAGACAGGACAGGTTATAT
GTAAAATACAATTCGTAACCAATTAAAACAATAACAAATAACTTGTGCTGAGTGGTTACCATGCAGGTGCTGGGATACG
CTTTCTCTCTACATCATCATTTCACCCTCTCCACACTGTTTGAGGTGTGGATCTATTGTCATTGTCTCCATGCTATAAA
TGAGATGAGGCACAGATGTTTTTTATTATCTCCATGAAACAAATGAGAGCACTGAAGCTTAGAGAAGGAGAGAAACAAC
AACTTGAAGGTTTAGATACTGTTTGAGGAGTTATAGTAAAAAGAAAAATGAAAAGTCCTCTCAAGTTCCACTGAAAATC
TTATAAGTGTGTTTCTTTCCCACTTTTGCAATATAATTTTTCTCTTCTACCCTCAACTGAAATAAGGTCACACAGCCTA
TACAGTATAGAACCAGGACTCCAAGGTCACTGACAACAAAGTAAAAGTCAGCAGTTTTGGAAAATACATATTTTTTTTT
TCCTAGCTGAGGATGGGTTACCTTCATTAGTGACATAACTATGTCACTTGAATATCAATTATTGGCTTGAATATCAATT
CATTTCTCTATTAAGAAAAAGAGGAAATAACTCAGATATAAATGATGGAAGTGGCTACTGAGTTAGGAAAACATTTGAA
AATCACTTTATACCAAGAAATCACATTCTGGCAGGCCTAATATGGTATAGGAGATATTCGTAACTGGTTATCTTCATTG
AAAGATTATAGAGACTAGAGAATAGGAAGGTTAAGTAAAAACTCTACAAATGATAAAATTTTATGTTAACAAGTAACCT
AACCAAATACTGTATTTCGCTGGACTTTATTGTAGACAAACAGAAATTCTGGCAAAAGAAAAACAACAAAAAAATAGGAA
ATACAGTTACTAAGTTAAAGCTCTTGCATTTACATTATAAGTATTTCTAAATCCAGTTTAAGATTGTGGAAACAACAAC
AGAAGTATATGAAATTCTAAATGCCATTTAATTAAAGTGTTGAAAGAGTAGAGATTTCAACAGTATCAAAACTTGTGAT
CTTCAAGGATCAAAGTAAAGGTGAGTTTATAGAATGCTCACTCTAGGTTCTGATTTGGCCAAGTTCAATCACACCACTG
CCCAATTCAATGAAAAATATAGGCAACTTTGTCAAGCAATGAATTTTATCAATGTATTCAAAGTTGAATGCATCTTAGG
AATAATTTGAGGGTTTAGAAAATGTTTGAGGTTTTTTTTAAAAAAAATCTTCCAATTTAACTGAAAACTCTTGTATTTC
CTTTCTACTTTTCAAATATAGCCTTTGTCCTTTACCCTCCATTGTAGCTTAAGATGTGGTCTTGCATTATAAGGAATAT
TTAAAACCATTCAATATTTTAAACCAAAGACATTCAATTTTTAAAATTTAAATGGAACTGCCATGTATTCTTGAGTGTT
GTAGCTATACAGCAGTGGTCCCCAACCTTTTTGGCACCAGGGACTGGCTTCATGGAAGACAATTTTTCCATGGATGGTG
GGGAGAGGGGTTGGTTTTGGGATGAAACCACCTCAGATCATCAGGCATTAGATTCTCATAAGGAGTGCACAACCTAGAT
GCCTCGCATGCACAGTTCACAATAGGATTCACAGTCCCACTGATCTGACAGGAGATAAAGCTCAGGTGGTAATGCTCGC
TTGCCTGCTGCTCACTTCCTGCTGTGCCACCAGGTTCCTAACAGGCCATGGACCGGAAGCAGTCTGTGGCTTGGAGGTT
GGGGATCCCTGCTATATGGGCCAGAAATGTGAAAGAGGTGTTCAGTGGGGAGTATACTTCTAACTTGAATACATTCTTT

Fig. 6.313

TCAGCATTTCTACTTATTTTATCAAAAGGTAATTTTTTTTCTCAGGAAATAAAGCAATAGGCAATTGTTTTTTATAGTT
TTTCTGTACAGAGCCTTATTCAATTATACTACCAATGTAATCCTATTGCACTGCTCAACAGAATCAGAATAAGAAGAAC
TTCCAAGTACAATTTGAAAATAAAAGTATCTTTCAAGAATTTGCACTGTACTGCATTATTTGATTTGGAAAAAAAAAAA
AATCAGACCACTTCCATTTCTTGATGAAACAACTAACTCATTTGCTAACTTTCAACTGGCTCTCTTCAGTGGCTTTGAG
AATGTGGCACTTCCATCATACCTTGCCTGTAGTACCACCCTAGAACTTTTTTTAATTGAAAATATTTTAAAAGATAATT
GATTCGTATGCTTCAAAATTCAAAACGTGCCCTAGAAAGGATCGATTATTAACAGCTTCTTGTGTATTATGTAAACAAA
TCTTATGCATATACAAGCAAAATACATATTGGCTAGCACTCTTAAAAACATAGGAAGGGTTGAATCTGACCAAGTTAAT
ATTTCAAAGGTGTCTATCAGAAAGGAAAAGGAAAGCTTCCTACAGTTATGTGTATATTTTTTTTTAGTTTAAAAAGAAT
AAGAACAAGATATTGGGTGTGTATGTATATATGTATCTATTTATTTATTGGAGACGGAATCTTGCTCTGTCACCCAGGC
TGGAGTGCAGTGGCAGGATCTCAGCTCACTGCAACCTCCACCTCCCAGGTTCAAGCGATTCTCCTGCCTTAGCCTCCCG
AGTAGCTGGGACTACAGGCGTATGTCATCACGCCCAGCTAATTTTTGTATTTTTAGTAGGGACAGGGTTTCACCATGTT
GGCCAGGCTGGTTTCAAACTCCTGAACTCGGGTGATCCACCCACCTCAGCCTCACAAAGTGCTGGGATTACAGGCATGA
GCCACTGCGCCCAGCCAGATTTTGGGTTTTTAAACCTATTGAACTTATCTTTGGATACATATTTTAAGTTTTCCTTAAC
TGTAAATGTGTTTATGTTCACTAGAAACACCACATGATTTCGCAGACATGGAATTATGTAGGTGAAATCAGCGGCTTTC
AATTAGGGCTCGATAATATTAGATATAGTATAACTTTTATGGCATTCACACATACTCTTCAGGGATACCCTTTGCAATT
CCGGAATAGTGTTTTTCTTGCTTACTTCAGTCGATTTCTTATATCTTTAGGAAAGATCTGCACATTCATTCTAGGTGAA
TGTAAAATTGCATTTTAAATCCATTCATTGGGAATCTCACTTCTTAAAAATCATGCGGAAAGATAGATGTACATTTTTA
GTAACCGAGCTGTTCAGTAAATTTCTTAAGATTATTTTCTCATAACCTCTGTACATCAAAAGTGAAAAGAACCTGTCCC
CTTCTCTCTGTATGCAAAATTCCAGAGAAGCACCAAGAACCAGAAGAAGATGAAAGATTCGGAAGAGCACACATTTTCC
AGCCTGCCAGCCTGGGTTTAATTTCACTTTCCCAAATATTTACTTGGTAAATTCAGAAAAAATCACTGGACCTCCAGGAA
CCTCATTTCCATTACTGTCATGTGGGATAGTGATAACACTATGGATCATTACAAATATTAAATTAGACTGTATGGAGAA
TGCTCCAAAAGCTAAATTATTGAGTGCTCACAAAAAGCATTCAACAAATACACCTTTCCAGTTGAAAATGATCATTCCA
TTAAATTCACCCTTTATTTTCTTTGAGAAAAAAAATCTATGCTTCTGCATTTTCAAACTTACTTTTCATGGATACATAG
TCTGTAATAAAAACAGCATATTAAACATACCTTTAAAAGAACAAAGACATTTATAAAACAATAACAACAATCAGCTTCT
GGATGGTTCCCCCCCCCCCCCCCATTAAACCCTATTAAAGGGAATACGGTCTCTAAAAGGGAAATCCAGAGACCTGTGT
ATTCGAGTTATAACCCTGGGTCAAGCAACTTAACTAGGCTGATATTTTGGCTTGATGTGATTTATATGTAACCTTTTAA
GCAATGTATATTAAATCCGTACTTTTTACTCATCTACTTGATTGCAAGCTCCTGCAAGATAAACTTTGTTGAACTCAAA
TGTTGTAAACTTCATGGGGCTTAGATATAAACTACAGACTTCATCAGTGTTTAACAAATACTTGCTTAAGAAACACAAA
GTCCTGTTATATCAGCCAATTAACTATGAAGCTAATTTTAATAACTGAAATATCATAGAGGTTAATATTCAAAACACCA
CTCATCTTTTTTCTCATTGAGTATTATTTATTTATTTTTGCTTTCTGGAGACATACGTTTACCCTTTATTTACTGTCTC
ATTTTGTCATCTCTGAACATACCATTTACAGCTTTTTAGTTATTCTGGAAAAATCACTTTGTATGAAATAATAGGCTAT
GATGGCTAGAAAGGATCTCACTGATCATCAGTGCAAGGATTGATTTTAGAAACAAGGAAAGTGAAACCAGAGACAGCCA
GTGACTAGTCTCAGTACTCAGAGAGGTCATGGTTGGTCAGAGGTCAGAACTCACATCTCCTGACCCACAGCACGTTTGG
CTTTGTGCACAACTGACTGCCTTAGTTAAGGACAGATAATTCTTTTCTCTTTAACAATAGAAAATTAGACTAATTAAAG
TCATAAAAGATGTTGCTCCTTTATAAGCCATAGAGAAACCCCCGATGGTTTCTTTATTTGGATCTGTGATCTTTAAAGC
ATGTGACTAGCAGCTATAATTGGATTAAAGTGAAAACATGTGATTGTGAAGGAGTTAAAGTACCTTTGCCTTATTCTGC
TTTGATAGCCAGCTTCAATTGCACATCGTGACAAGCAGTGAACCAACATCAACCCTGTGGAATTAAAACTTTAGACTCT
ATCACAAGCTTTTCCAAGTTCAAAGCCCACCAATTTATTATTGGTTCCAAGTTCTAGGTCTAGAATCAAGTCAGCTGGG
ACATCAAATACTTGTTACAAAATGACATTTGAATGAGATAATTATAAATAGCACTAGAAGCACATGAATTAAATATTGC
CTGAACACTAATTTTCTTAGGTAGGATATTGGGATGTCCTTTGCTTTATCACTTTGCAGTGATGTGAGCAGTATGAGAT
ACTATGTTTTGCAAAACTGTATTAATTATAATATTTATTGAGTACTTACTATGTCCCATGCACAGTCCAAGTTTTTCAT
GTACATATTATTATTTAACCTTCACTGCTATGCTTGCAGATGGATGTGTGGTATATTTTAGTTAACTCGCTCAAGGACA
TGCACAGTAAGCGGTGCAGCTGAAGTCCAGACTGGGTCAGGCTGACTCCACAACCTCTTAATCCCTATATTAAATTGAT
ATATCTGCCCATGCTATACATCTACTTGATCTTTAGGTTGATTTATTGATAGTGACATTTAATTTTTGTTTTCTTCAAA
ATTAAATTCTTACTGTAAAACTAGTCAAGGCAACTGAAGTTTGTGTTTGAATAAAAGTGTAGAGTTAACTGAGGATTTG
TGTATTCTCATTCCAAGATGAGAAGGGAGGGAGGGAAGGAAGAAAGAAGGAAAAGAGGGAGGGAACGGAGGAAGGGAGG
GAGGGAAGGAGGGAGGAAGGGAAGGAGGAAGGGATGGAGGCAGGAAGTAAGGGAAGGAAGTGAAGGAAGGAAAGAAGGA
AACAGTAAAGGAAAAGAAAGGAAATAAAAAGTAACTTCATTCCTCTATAGAATCTCTATTAATAAATGTTATTTTTTAA
AAATAAAAAATACAGTTATTTTTCATGAATATAAATTTTAGAACATATTTTTCAGTGCTCCTTACCTAACTCCCAAATAA
TCCATTACTTACATTTCTTTTTTTGAGATGGAGTCTCGCTCTGTCACCCAGGCTGGAGTGCAGTGGCACGATCTCGGCT
CACTGAAACCTCTGCCTCCTGCTTTCAAGCGATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGACTACAGGCGTGTGCC
ACCACGCCTGGCTAATTTGTTGTATTTTTAGTAGAGATGGGGTTTCACTCGATCTCCTAACCTCATGATCCGCCCGCCT
GGGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACTGTGACCAGCCCATTTCATTCTTTATAACCATTATGAATTC
CCACCTAGTTTGAGAACCACTACTTTTGTGTGGTTTCCACCCTTTGTGTGATTTCAAAAAGGCTCGCCTTTAGGCAAAA
TTTAGCAAGAAGTCAAGCCAATCAATAATTGCTTGAAGTCAACTTTTCCAGAATAAAACTGTATAAGGGACTTTGAATT
TGAAGGTTACMATCTAAAGTTTGCTTTGAGATGGGAATAATACGTAGTGTTGGGGATTATTGTAAACCTAAGTGATCTA
ATTGGAAATTAGAATTGAAAGTGGGAAAGTGAAGGAGGAAAAAATGAAGGTTGGGGAGAAAAGAAAGCAATTTAGGAGA
CTCTATAGGGAGGAAAGGATGAGATGCATTTCAGAAACAAAATATTAACGTAAACAGAAAAAAGAGAAAGCAATCATGA
CAAAGCCTAAGAGGGCTAGTGGAATGCTAGAATGAACTCATTTACCTTCCTTTGATATTTAGGGGCTCTATTGCCTGCT
AATTTCATCACTGTTATTTTTCTTACCTCTTATCTTTTTCCCTGTAGTTATTATCAGCCTAATATTCATTCATTCATTC

Fig. 6.316

ATTTACCTGAGTTTTCAGGCTTGTGCAGAGACAACAGGGTGGGGCCAGGTTGCAAGATTGTGTTCCCAACTTGGAAGTA
ACGTGGGTAAGGAAAAAGTCACAGCTGGCCTTAGAAGACACAAGTTAACCACATCCCATGGGTCAGTGGAAGAAAACAA
GGGAATAATTAGAAAACTGTGCAAGATCAGAAGGGAGCCCCTGAAGCTATAACTGCAAGAACCTCCAGACCCTATTGCC
TTTAAATCCCCTTTTAAAAGGCACCAAGTGAGGAAAATTCCAAGATGAATGGGTTACGGGTCTGACCTTCAGGAACATG
TAGGCTGCCTGCCGATGTCCACAACATCGTCCCTTTCACATGCCTAATACATTAGCGTGGGCCACTCATTTAAAATTTA
AAAAATTTCATTTAGCATTTAAAAATTCATTTGACAGAAGAGATGTTTCAAATAAATAGTCTTCAAAAAAAGCCCGGTC
TATAAGTCTCTGTAACACAGCCCATCTGCTTTAGGTGAAGTGAGGCAGTAGGCCTGGAGCCTCACCTGGTTGGCTCTTA
ACCACATTTACTTTCCAGGAGAAGCCTTTCACCAACTTCCTCAGAACCTCCAAAACACCAAGGAACAAGATCCTGAAAT
TGTCCATAGTCTTAACTTTGTTAATAACAGACTGCATGCCCCTGGAAAAACTATTTCACTTCTCTTGGCCTCATCAACA
AAACAAATGTGGCCTAAAATACTTTGTAAGATGGTTTCAGTTGTAAACAGCCTGAAAACTCTTAGTACAACTAATTTGG
GCAAGTAGGTTTGGCTACAGATAAAGAACAGAAAGACTTAGACAGTGGTATACATTACTCTGAAATATTTTTATTATGT
AAGTACAAATAAATGGATGTCTAATTGTTACTTTTCAGGTAGCAACATTTGTAGGAAATGCATTTTGTTAGGAATTTTA
AAATCACTGAACAGATTGCCATTTAGTTTACATTTTCTTCTCACCTGCAGATCCTGAAACCTCTGAACTTTTCTTCTGC
CACATAAGTCAAATATCCATTTATAGTTTTTAACTCTTCTCTTTGGCCCCTAAAAATAGAAGATCATTCCTGATTTTAA
AAGTAGCACTTGTATGCATATATATAATTTTTATCTTTAAAGGAATACGCTGATGATTCCTGACTCTAGCCAGTCCTTT
GCAACCTTCAAAGGATTGTCTCCTTGGCCCTAAGATGTAACATTGTTAACCTTTTATGACAGAATCACGTCAAGGAATA
TTACATCTCTTCTAGTTCCTGTACCATATCTTTATGATAAGAATGTGTGCTTGCCATCTCAAAATATTGACCCTCTGGT
ACAATCACTTGTATCTACTTGAATACAGATGTCTTGTTACTATTTCTGGAAAATATTCAGTAACAAATTTTTCTCTGAA
ATATTGTTATTAAATTTTCTTAAAAATTGTTTCTAACCTTCTTTACTAGAGCTCACTATAAGGTAGTCTTTAGTTTAAG
AACTTCAACACTCTCTGATTTTGGTTTACCATTTTCATTTGTGCAAAATGAATGTGTACATAAGAATCTGTATTTCCAA
CCCAAAGAGGCATTATAATGACCGTTAAATTTTCCATCCAAGAAATAAACTAACTCCACCATCCCTGAGTGTATACCCT
GCCCTTCTCACTCTTGTGTTCTTTAATTAGACCCAATGTGCAGGACATGACTTGACTGAAATTTATAGCCACATTGAGA
CATGCAGCTAAAGAAAGCTCTTAGACCAGGCATCATCTCAAACTTTTAAAGCAATAGGATCATTTGACAGAAGTGTGAC
TCGCTATAGTAATTACACAGGTGCAAGTTATAACTACTTAATCTGCTCCCAGCATCTCTGTTGCCCTTGAGAAGTATGA
TGTCCTCTAGCCAACATGGCTGTTCATATGGGACTGAATCTGCACATATTTGAATTGAGTTTTTCAAGTTTAGAAATGT
GATACTATTTTACCCTTATGTGCCTTCCACAATCCTACTCCTCTCTTAGGTGGATCAGAGTTTCTGGAATCCATCATCT
TTAGTTCTGCAATTTACATCTCAGACTTACATGTTTCTAGGCATAAATGCAAGAATGACAACATCAAGGCCTATGAAAC
TTAGACTTGTATGTATGTGATGGTAGACATTGAAGTTTGTTGCAGGAAAATGTTTCTCTGTCATCCTAGGAAAAGCCCC
CAGTTTCTCAGTTCCTCCTCCTCCACACGACAGTTTTTTAGTTTTTTTAGTTTTTTAGTTTTTTTCTAAAATGGAGTTA
AGTCCAGGTGCAATAGCTCACACCTGTAATCCTAGTATTTTGGGAGGCTGAGATGGGCAGATTGCTTGAGCCCAGGAGT
TTGAGACCAGCCTGGACAACATGGCAAAACCCCATCTCTACCAAAAATAAAAATAAAAAAAATAAAAAAATTGGCATGG
CAGTAGGTTCCAGTAGTCCCAGCTACTTGGGAGGCAGAGCCTGGAGGTTGAGACTGCAGTGAGCCGTGATTGCTCCAC
TGCACTCCAGCCTAGGCGACAGTGAGACCCTGTCTCAAAATAAAATCCAATTATGATCATACCTCTCTCCTGTTGATGT
CCATCAGAGTCTGCAATGCCTTCAGGGTAAAGTTTAAACTTCCTTCTAGAAACAATGTTCTGCGGTAAAATGACCAGGG
TCTTTGGTATTAGATACACCTGGCCTCAAAAAATGGGTCAGCCCAGGTATAACCTTCCCCATCTTCTGTTTCCTCATCT
GCATAATGGAGTAACAAACATTGTCAGGAAGTTACTGGAGTAATTGTGTGAGATACCAAACATAAAAAGCCTGGCACAA
AATAAAAGCTCAGTAAATGTAAATGTCCTGTCTTTTGCCTTTCCCTCATTGTCTGCGACTTACCTTTCTAGGTTCCTTT
CTCCCATGTGCATCCCCTTCCTTCCAAAGCACTCATTGATTCTAGCCTGCAGTGTATAGTTTCCTGATCAAGCCAAGCT
CTCCCACACCTCTGTAACTTTTGCGTATATTGTTCAGTCTCCCTGTAAGTCTTCCCTACCTTCACCTTTTATAGAAACT
GCAGGGTACCTACTTGCCCCTTGAGATAGCTATTCCTGAATTTCTCCCGAATTTAAGCATTCCTCCTCTATACTTTCAT
AAATCTTTCACACACCTCTTTCATCCTACAATGTCATAATATTAGTTGGTTTTATCTGTCTTCCTTAATGTATCCTTAA
CTCCTGAGAGTGGACGCTACATCTTAGTCATCTATGAAACCCCAGAAAATGTAATCAAGCTAAAATGGCTCACTCATTT
CCTAGCAAATATTGGTTAAATGACTGAATGGATGATACAGGGGGCAAAATAAATATGGTTTAGAAAAGTGGCATGGCT
GCTGATCTATCAGTGCAAAAAGGAGCACACCCACCCACTACATGGCCAAAAATGTTGAAGGCAAGAGACTAGATGGCTT
GTGAATAATATCAAATGAAGTTGTCTTTCTGTAGGAAGTCTTAGACAATGTAATCTTGGGAGGCGGGTGGATCACAAGG
TCAGGAGTTCGAGACTAGCCTGACTAATATGGTGAAACCCCATCTCTACTCAAAATACAAAAATAGCCAGGTGTGGTGG
CATGCACCTGTAGTCCCAGCTACTCAGGAGGCTGAGGCAGGAGAATCACTTGAGCCCAGGAGGCAGAGGTTGCAGTGAG
CTGAGCTCGTGCCACTGCACTCCAGCCTGGGCAACACAGCGAGATTCCGTCTAAAAAAAACAAACCAAAAAAAGAAAAT
GTAATCAAGCTAAAATGGCTTTGGCTTTCCTTCAGTAAATGGTTACTGTGGGAATATATGTGAAATGAATATCAATACT
ATGATGAGAAACACATGCACTAAACAGCTATACTTCTGATGCCATTCTCAAATCTGAAACTTTGCCCAATTTCAGGGAC
AAAAGTGAAGTAATATGTATCCCCAGTGTTTAGCTTTTCTCTTGCCATGGATACTAACAGTGAGATTCCTCAGGGACTG
TTCCTTTAACCTCGTTAGGGTTGCTAGGGGCTATTGTGCCTTTCACAACACAGCACCTGCAACTGGGAATAATTGAAAT
TTTCTGCCATTAGCTATTCCCAGCAGAGTATTCTGAGTCACATAGAAAGTGTCAGAAGCATATAAATTACTGATACATT
TTTTAATCCCATATTCCCTCAGGGTTGGCGTTTTTCTCTCTTGAAAGTTTCCCCCTTAAGGCTGGGCGTGGTGGCTTAC
GCCTGTAATCCCAGCACTTTGGGAGGCCGAGGCAGGCAGATCAAGAAGTCAGGAGATCCAGACCATCCTGGTTAATACG
GTGAAACCCTGTCTCTACTAAAAATACAAAAAATTAGCCACGCGTGGTGGCGGGCGCCTGTAGTCCCAGCTACTAGGGA
GGCTGAGGCAGGAGAATGGCGTGAACCCGGGAGGCGGAGCTTGCAGCGAGCTGAGATCTCGCCACTGCACTCCAGCCTG
GGCGACAGAGCGAGACTCCATCTCAAGAAAAAAAAAAAAAAAAAGAAACTTTCCCTCTTAAAATATTCTTGTTTAAATCT
AAATTAATTTCATAGATACCATTTCCATTTTTCTAATGAATAATACTGTATCCTTTCCTATCTATACCATGAAGTTTTT
CTTTGCCTTGAAAACCCATTTAGATTTATGATTTCTAGCCCCCAAAATAACTTTTGTTCCTATATCCAATTCCTTCCCT

Fig. 6.315

CACAGTTCTTTCACAATAGCTTCTTTTCTCCTGTAAAACCCTACATAAACTCCAAAAACATTTCTAGTTTTGGAAATCC
TAATCCAAGAGGTCACATCACTAACGCAAACGTAGAAATCTTTGTACCAAAGGACAGAGGTGCAAGGGAAGTCGGGAGT
TGTGGCTGTGGGAAAGTGAGGAGGACTCTTTGGCATCTGGGCAGAGGTACAGGGAAGCCAGGATGGGGGCAGAAAGAAA
GTTTCTCAGTTTCTCTTGTGTCTACGGTTCATGCTTAGGCCTCTGCAGCAGCCCCAAGGCAGGTGAGGGTGATCAGCTG
TTCCAGTTTGCCTGGCACTGAGGGATTTCCTGGGATGTGGGGCATTCAGTGCTAAAACTGGGGAAGTCTTGGACAAATT
AGGACAAGTTGGTCACCCTACCTTTCCCTTGCTGCTGCTGTCCTTTTAAAGTCCTCATTCCTTTGAAAATTGCAGTGAT
CTTCAGTTCTTCGTGATTTTAACTGTATACAAATATTCAAAGAGCTTGGACCAGCACATTTCTCAGAGAGAGCTCTACT
TACAGTAAATGTTATGTGACAGAGCAGGATAGCAAATAGATGTTACCTGGGGCAACTCTAATTGCTTGGTCATGACTGT
CGGGAGTAAAGTGTTAATAGTTTCTTGCATATCCTCCAAGAGAGTATTACAAATACTATTCTGCACCAAGCTCTTTGTA
ATTTAATAGTGTATCTTGGGGCCCTTTTGTATGGACTTATACAGATCATGATCTAGAGATAATGATCATTCTTATTTGA
CACATAGTATTGCATTATGTTATGTCTAAAAACCCATTTAACTCTATTGATAGTCTTGTGGGTCATTTCCAGTTTTTAC
TACAATTAATACAAATAACACTGCAGGCATCCTTGTGCCTGAACATCTTTGTGAGTTTACCCATTGAATAAAGTCTTAG
CTGTGAAACTGAATTTAAAATTTTCATAAATATTGCCAAGCTGTCTTCTAAAAGAATATATTAAGTTACAATCCCACC
ATCATCACAAGAAATGCTTGTATTTCTATACACACTGACCCTGAGATTCACAAAAAACATATTTTCCCCATCTAATTTA
ATTGCAAAGAAAATTAGTCACCTTTCATACATTTATGGGCCAGTTCCCTCCTACCTCCAAAGACTCATTGAATCAATTA
TCTTGAGGAGTTTATTTTTTATGGATATGTTAATGTTTTGAGTATATTAAGAAAATGAACTCTCCTCATTTGTGTAAAC
TTTTCAAAAAATTTTAATTTGTTTAGGGTTTTTTTTTTTTATCATTTAGTCTTTTAAAATATTTGAGTAGTCAAATTCA
TCCTTTCAGATGGTTTCTGGACACCCTGTATCTTTTATGCTTGTTTTCCTGGCATTCGGTGCAGTACCTATCACAAAA
TAGATTCTCAATAAATGTTTTTTAAATAAATGGACAACGAATGCATGAATAAGTGAAGGATATAATTTATTCTTTTCAT
TCCTCCTCATGCTATGTAGAGATTTGCAAAATGAATGCCAAAACATATCTTTGAACAGAATTTCATGGCCCAGTATCTT
CAGGCAGTGGTTTTTCTGTTTTGTTCAAAATGATGTCCCTATCATCTGCATAGTGCTGGCGTATGGGAGATATACGTAT
TGAATGAATACATAAATATAGAGAATAATGAGATAAATAGAACGTGGATTATTTGGAGTTCATCCTCCTGAGCTAATGA
TGGGCATTTCTGGAAGTGCTGGGTTGCAAATAAGTCCAGACCAGAGAGGATTGTGTTTAAAGGCCCAGAATCTCAACTG
ATAATCCTCAGAAGCTCAGATTTACTTTTTTCATTCCAAGTAAATTAAACTGGAGTGGTAAGAAAAAGAAAAATGGTTA
TGACCATCAACCCCAGAAACAGGGACCACATTTAATTGAATTTATAATGTCCCTAACATCTCTGCTGTGTTTGAAAGGT
TAAAAATTTCCTAGAGAAAACAGCTTTTGCTACTACTTGCCAAAGTACTCATAAAATGGACTGATTGCTAAGAACAGAA
AACAAACCAAATCAAAATAAAATGAACCAAAAAGCAACAGAAATAAATGTGCCTTAATGTAGTTGGATGATTACCACAT
CTACTCTCCTCAGACCACCAGCCTTCAGAGTAAGGGCACATCCTTCCAAATAAGTGCATCCTTGTCAGGGACATTTGGT
GAGGTGCAACCCCTTCAATGTGTCCGTTTCCTGGGTCATTTGGGGTCTTAGGAAAATCTTCTTGTTGGTGCGCACTGAA
TTGCACATGCATTATGTAACTCATTGCAACCCAATAGCTGAACTCATGGTTTCATAGCTATTAAAATATGCCACAAACC
AAACCACCTGTGAGGCGCCAACTCAGCAAATGTGCCTTTTCAGAAAGTAGTCATAAAAGGTACAAAAAATGAGGATGAA
AGAACCCTGAATAACAACCTAGAGCTCATACATTTGGAGCCATGAGGAAAAGTATTCCATGTAAGTTGAAGGAAGATAG
CAGTCAGGAGCATTGGTGTTGAAGACCACCCTCACTATGAGAAAGGGTCATATATATAATGTGGAATGAATCAGAGCTA
CCACTGTGGGTCCCCTGTTGGAAAAACTGCAATTTTGGATAATTATGTGCAAGCACTAGGAGAAATGCCAGATGTTAGA
ATCCATGTTTAATGTGAAAATTGCATTTTGTTGTTTGCAGAACCTCAATATATAGCTTTCTCTATAAAATGTGGGCATA
TTTCTGAAGGAAAGAAAAATGCCAGGGTTTCGTTTTAACATCCTGTTACGTTTTAGTTAAATTCAAAGGAACATGACTT
TTCAAAGAGAAAACTGTCTCTCTCTCATAAAATAGCATTAAGTGGTTCCAAACATATCTTAGGTTATAATTGAAATTGG
ACTCTGTGGAACAAAATTAATGATGGTTTGTTCTCAAAGGCCCATTGTCCCGTTGATTTTATCAGTTATTCTTTGTTAA
TAAGGTGGTAATGTGGTCTTAAGAGCTTCCACTACTGAGAGAATCCAAGGAATCATAGATAAGTAAATTGATGTCAAAT
ATTATGACTTTTTCTCTTTCATTCTTGTACTGTATCTAGTTGCCTCATCTTTTTTTCTAAATCTCACAGTTTTTGATCA
AATTCCCTAGGGACAGCTTACATGCTAGCTTTATGAGGGAGGTGAGTCATGCAATCCCAAGAAAGCAAAAGTGGAGTTG
AGGGGGTGAAAGGAACAGCAGTAGGGAAGAAGAGAAACCATGTACAAGGTAATGCATTACTAAGCTTGTCAGAGCTTCC
CAACAACAACAACAACAACAACAACAACAAAACTAGTTGCTAAGTTACAAGGGACATTGCCTGTGAGGCTGTGTCGTAA
AACATTCCACATGGAGAAGAAAGGGTGAGCAATTTTTCTGTGCATAGGTCTTTTGTCTCTCACGTCATTGGTCAAAGTTTGCTC
CATGGTACCCTTGGCCCTCCCAGAGTCCCTGGGGAATACAGAGCCTTTGTCCATCTCACGTGTAGCTGGATGGTTCCTG
TCAAGTCAGAGGCCATTGCCCACGCTAAGCCCGCAAGGATGGGGAGGTGGAAAACATGAGGCAATTGCAGTGATAACCG
CTGCTTTACTGGGGCTGCTGTGGCATGCCTGGGAAACTGGGAGAGTGGCTTATGCCCAAGGGGTAGGGTGGCAGAGCT
GACCTGGGGAGGCCACAAACAGGACCTAGTGTACTTTTCTACAGTATACTAGCAGAATTAGAATGAATCAGACAAGAGA
TTTATTAAATTAAGCTTTTGTAATGTCCTGATGTAGTGCACTGTATTTTAATGCTGTGTCTTCTGTTGCTTGAGTTCCT
AATTTGTACCAGGTGTTGTGCCAAATGCTTCAAATAAATTACCTTGTGAAATCCTCACGACTCTATGGACTCCAATTTA
CAAATGAGAAAACTAAGACTTAACTTGCTTATTCTTCACCAAGGCTAGGAAGTGGCAGAGTTAAAATTTGAATCCAGGT
CTAAAGCCATTGGTCTTCTATGCCATAGAATCGGCATCCATTTTGCTACTCTTACTAGAAAATCATGAATCCTAGCTAT
GAATTGTAGTGAGGAGGAAAGTTTTTTCTGTTTCATGTTTATGAAAAAATCTCTACCTTTTTCATTTTTTTGGTTGGTT
TTCAATTGGCCAATGGTTGGAAACAGGCAATTTTCAGAGATTTGTGTAAGAGTGTGTGTATATATATATATTGTATATTT
ACAGACAGAAAAAAAATTGAGATTAATTTTTCAATTCTCTAAGTCATAAGAGAATGGAAAAACAGAAATGGACAAGCAGA
ATTTTTATCCCAATGTATTCTTTGACATACACTGGTCATAATGCTAATGTTAGCAAAAGAAATAAAGAAATCCCTGGT
GCAATGGGATGATTGACCTTCCTTTAGCAGAACAGTGTTGACTTGTTACCGTTGTCAAATCAGACTGAACACATTCAAC
AACATGATCATTTCTACTTGTGGGTTTGGACTGACAAGGACATTTCTAGTATATCTTGTTGACATCAGGTTAATAAGCT
CTAAGCAAAGCTGAAAATGAATGCTACTTCCCACAATCAAGTGGAAATGTTAATATTATCAACATGTCTTAAAGGCCAT
GAAGTCCTATGCCTGTATATGTAACAGGAATAGCAAACAGGAACTTTTCTTAAAGGGAAGATTAAACTAGTGTTATTTT

Fig. 6.316

TATGTATTCGTTAATTGCATGCTCCCCATTTTTAAAACTGTACCTGAAAATATACTGTAATAAAAAATTAAATTTGAAA
TATTATACCATTGAATAAGGTCCTCTGGATAGTTTTGAGATTTAATATTCTTTATTTCAATTTACATGTATACTGAATC
ACGTAAAAGTTATTTAGGTCAGTACTTCCCCACATTTGTTCCTTCATGACATACGCTGATAACTATATTTCTACGAAAA
CTGCAGTAAATAAAGGATGTGGCTTGTGTTCAGTCTCCCACCCACTAGCGACAAGAGCCAAGGGAAATCAATAGCTTGG
CTCACCTGTCATCTCCACTCTTTGGCACACCATTGAGAAGTCTAATATGTGCAAAGAAAAGTTAATTTTACTTTCAAGG
GTTATACCTTTGCTTATTCCAAAGAACGGTGGGGGAGTGTACCAGGGCCATTATTATAATGTATATTATTAAACTTTTT
ACATTTTAACTGATTTCTCTTATAGTAAAATTAATTATATATTAGCTTTGGGGTATACAAAATTGCACTTTGATAATAA
TATTTAGGAATTGGCAACTTTGTGGGCAAAGTTGTGGGAACTATCAGAAAAGTAAAAAATAAAGGTGGGACCCGAAAGA
AGGAAGGATTGTAGGTTGGAGCCATACGCGACTAGAAACTAAGACATGTATCCTTAAAAACCCTCAAATCTGTGTTCTG
ATGGGAAAACCCTGCTAAGTCAATGGTTCCCAGACTTTGGAATTTCAAAACAAAAAACTGTGAGGCCCAACATACAATT
ACCAACTCTTCATTTTTGCCAAACAAAACTATTTTCAACAGAACACACTAACATATACTGGAACCATGATTTCATATTA
TGACATTTATTTTCCACATTCTATATACTTTTAATATGCAAAACAAGGACAAAAAGGGCAGTCATCTCCCATGGGGGGC
TTAGAAATCTCTCATTAATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTTTTAAATTGGCC
TTATTATTTCTTTAAATTTAACCAAGGGCCAGTAAAACTCCCTTTTGGAATACCACACGCCCGTGCTGTTCAGGAATGA
TTATGATAAAGTCATTCATGAGGACATAGAGTTATTTCATATGCTCTCAAAAATGACTTGCAGTGCGAAACACAGCTAC
TATTGGACAAGACAACAACCCAACTTTATATAACAATTTTTTAATTCACTAGTACTTGTGTATCAGTCAATAAAGTACC
TGGTACTTGTGTACTAGGCACTGGGATGGAGTTGGGGATACGAAAGTGAAAAATATAGTCACAATTTCTACCTTATACT
CTAGTAGGGGAAAGAAAAACAAAATGTATGATTGAACTGCCTTAAGCACCATGAAGGCAACATACAAATTGCTGTGAGA
GCATATAACCAACTCAGAAATCAGCCTTAAACTGAGACCTAAAAAGGACTCCCCCTGTGCCTTTTGTATATTTAAGGCA
TCTTTTTATATTCTAGAAATACAATATCATTGAGCAGATAGATTCCAAAGGGCCATCTTCTAGCTGGATGAAATAGAA
AAGGGCACCCYTTCCTCAGGCTAACAGCCCTGCCTGCTGAGGGCATAGTTAGGTGAATGGATCATCACTAATGAATGGA
TGGTTTTAAAGAAGGGAATAACATGACCAAATTTGCATTTAACTTTACTCAATAGTCTGGAGTATTTAAATATGATTAA
ACCTTTTCTTTCCATTCACTTGAATGAGGCAGAAGGGCTATTCAGGAATTTAAAGTTGACTAAGGTATTGATTGGGTAC
AAAATTTTTACTAGGTAGGTAAGGGCAGGATGATTCCATTAGAAACAAGAACTTTTTCTCCAGTGCTCTGGGAAGAATT
GATTGGTTCAGGGCTAAATCACCAAGATGAATACCTTCTTTTGATTCACACACCCTTTTGACATCTGGGTTTCCCTGAA
TCATATGCAATCTAGGACTTACGCAGACCACTCCAGTTTCACTTACGAAATTTGGGTTAGCCAACTTAAACAGTCATGG
CTGTAATTTGCTTCTGAGTTAAAATGCTATTATTATTTTATGTTATTTATGGATTCCTGCAAAGGAGAAAGCATTTTTA
TTTTGATAAATTTTGTTATTAATGAAATTAACTCAATTTTGTAGTAACATAGTATACAGTGAAAATGTGCTTTACGAGA
TGCCGTGGGCTTGTCTCTCAAATGGACAATGAGGCTTTCCGAAACCTTTGTGCCTTTAAGTTTAAGGAATTGATTTGGC
GTCTTATCTCAGTGTACACAAAGCTTAGTTATCACCTAGGAAATATTGGATGTTTGTCTCAGGGAGAAGAGACAATTTT
TGAGACCACAATTAGGTTTTGTAGCTATTTGACATCCAATTATAATCAGATACTCAGTGAAACATGCATTCATAATGCA
GGCCAATGATCATATATTTGGCTTAGCTTTTCACTAGAAAAATTCTTTAAAGAAATATTGTCCTTCCAATTTTAGTGGT
ACTGAGGAACAGCTCTGGTTATAAGGGGGGAAATACTATATGTCCTTTGTTCAATCTTACTAATCTTTATTAATTTTAT
GATTTTCCCCATTTATTTTTTAAAAATCATTAATAAAATTATCCTTGATTGAGTTTCTCCTATGTGCTAGGCATTGTGA
TAGGACTTTAGTAAACATCATCTCTAACCCTTTCAATAACCCTGCAAGGTAGGGTCATATTTTATAGATAAGGAAACTG
AGGCTCAGAGAAGTTATGTCTTGAAATTATATAGTAGCAAGTGGTTAAGCCAGGTTTCCAACACAGGTTTGTCTGACTC
TAAAACCAGCATCTGCCCCCATCTCCTCACCATTCGCGACCAGAATGTGATGCACGTCTACCAAAAAGAGAGTAGCAAA
AGGTGATTTATAGAAGCAGTTACAGTCCTCTGAAGAGAAGGCAAAACTATTGGGGATAGGGAAAAAGTAACTATAAAGA
TCATATTTATATAATCGAATATTAACTTAATGGCTTGAATTAGGTGGCAAATAAAATATATTAGCAAGCAATGTTACAA
ACCATGGTGAGAGCTATGTAGTAGATGAAGCAGAATGATGGCTGGGCTCAGGGAGCTCATACATTTGGAACCCAGATAA
ATCTTTGCTCCTTCTTCCCAGAGCCCATCATCACTTTTTAAAAACACGTCTTTGCTGGGCTCAGTGGCTTACATCTGTA
ATCTCAGCACTTTGGGAGGCAAGGCAGGAGGATTACTTGAGCCCAGGAGTTTGAGACCAGCCTGGGCWACATAGGGAGA
TGCTGTCTCTACAAAAAATAACAAAGAACAAAACCATCTGAATTTCATGCATTCCAACATATATTATTTTGTTCCATTC
TACTTAATAACCTTTACACTAGTTGTGAAACTCACTGAAAACAAAGGAGAAACTCATTATAATTCATCTAAACATTCCT
GAAATATCACTTTAATCAAAAAATTAAGAAATATTGCTCAGATTTAAAAGAAAAATGGAAACTCCCTTGGCAAGTGGGT
TTGAGGTTTGGTCATTAGGTTTTGAATAATCAGGAGCTATGTGTTGTAGTAGGAAAAGCATACCATTTAGAGAGAGACA
GCTTTAGTTTGTCAGTCCTGCCTCTTAATAGGTGGATGACCTTGAGTAAAGCATGACGCAGCCTTTGGGCATCAGTTTC
CTCACTTAAAGGTAGAAGGGTTGAACCAGGTGTAAGCTGCTGTTCTTCCATGTTATGATTCTAAATAGTTCTAGATGGA
ATTATGTTGCACATTTCATATGTTGTTAAACAGCTTCTCTCTGGAACAGTTGCTCCTAATCTCCTAATAAGCTTACTAT
GGGTCACTCAGCAATCTTCAAGAGAAACAAACATTATTTGGTTGGTGGATACCAAGACAATTCTGATGTGTTTGTGTCA
AAGATTGGTCAGATGAAATCTAACTAGACATGTATCATTCCATCATCAAGCGAAATGACCTTGACTCTAAACATCTTAA
TTTGAACTGTAGACATTTCCCAAATGCTTTAGGGTAGATTTGGACCATAATACACTCCACTGTAAATGGAGAAAGTTCA
TCATCCCCATAATAATTGCCCCCAAACTGCTAGGTAGGAATGCATACTGGGTTTAGTATGTATTAACTCCCTTGTGAAT
TCAGCTTTTGAGAGCAGACCTCTTAACAAGTCATGAGTATTTAGAGTGAAATATTTAATTCTTAGTGATACTATTTTCC
TATTCTGCTATTATTATTCAGCTATGATTATTTTCCTTCTCCTCCCAACCTCCTATTTCTTTTTCTTTATTAAAAAAAG
GAGAGGAGGTGCATGCTGCCATCTGGGGTGAATATGGGCTTCACGTGGGGACCTGGGCGCTGGTTCTGATCCAGAGAGT
GAGCTAGGAGCACTTACACAAGAGGGTCTTAGCCACTGTGTCGGGGGAATAGCCTTATATCAAAGACTGAAGCCTTTTA
GTAAAACCTGAAGAATAATCAGAAGCAGCATTGACTAGTCTCTAACCTTGGTTGAGGGACACACACACACACACACACA
CACACACACACACACACGGCTCTGAAAGCTCAGACACGGAGGACACGCTGTGATCCACTTAGCCCTCTCTTCTCCTTCA
GGGGGTCCCTTGCAGGACAGAACGCTAAGGAACAAAGTCTTAACTGGCAAGCTGCCGGCAGAAGGAGACTGTCTGGTGG

Fig. 6.317

ATTGCAGCGCTGATTAGGAACGGGGAGTCCTTTGCGTTTCAGAATCCGGTCCACATTTTGCTGAGAGCCCAGGCACTGT
GAATAAGAGGAGCCTCTGAGGACTGGTTTCTGATGTCGCACTAGGCATGATAAGAATGCCATTGACGTCAGCAGAGTCA
TCATCAGGGAGAATGGCACCCCAGCTCTTGAAACCACACCAAGCAATTGCAGTGCTTTTGAAAATTAAAAGCCGGTGCT
GGAGTGTGGGGGGTGAGGTGGGGGGTGGGGGGGTGGGGAGGGAAAGAAGCAAAGAGGGAAGTCGTGGCTCCAGCTGAAC
TCTTCTTTCTTCTATGCGTTTCCTGTATTTTAAAAAGGCAGGCTCACGGCCCTCCTGTGCACACGCCCGCTCACTCACA
CACACTGCTGCCTGGGCTCATTAACCTAAATTGGGGGAGGTGGGGGAAGAAGAAAGAGAGAAAGAAGGAAAAAAATTAA
TTCTGTTAACACTTCTGCATGCACATAAAACAAACTGTGCCACCCAGGTGCTGGACAGAGGCCCTGAGCCACATAAGCC
TCTGAGAATCAAATTGCTGAGGTAAAACTGATATGCTTTAAATGTGTGTTGATGAAGAGATTACAAGGGAGGAATTAAA
CACTTCAAAGGAGCTACTACAAAGCAACAATCACTCTTCCCCCATCCCTCACACACGCACATTACTGTGGACGCTTGCA
TGTTTGTGTGTCTGCCTGAGAAAATGGCAAAGTTGGTTTAGGAAGGGAACACTGCAGGCATGTTGTGATTTCAGCTTTC
ACAGGCAGCTCCAAGAACATCACCTCCAGCTATAATTCAACGGTTACCTGGACTGGAAAATGTCTTGGAGGTTACGAAG
TCTTTGAATTCTTTAGTGTAAATTGTCTCCGCTTTGAAATTCCACAATTGATCGAATCCTTTCATTCTCTTTCCCACTC
CTAATTGTTCCACTCTAACTCTCCACCCACCGCCAGGAATATGAAAACAACATAGAGTAGAACTGATGATATCAGCTGT
ATAACACGCTTTATTTTACGGCATTAATGGGCAGCTTTCCAAGTCCATAAAAATCTTTTGCTGATCTGATTTTAATATC
CATATTCTTCAGTTATACTAGAAAGAATGATTTCCGAGATGTGGAAATGTTAGCCGGGAAACAAAAGGACATAGGCACA
TAAAGCAAAATCTGGCAGGAAATGTGGGTTTAATAAATTGAATTATGTGAAACTCCTATTTCAAATGGACTGATACTAG
AGGAGCAGCCCTCGAGAGATATGCACAGTAATGATTCTTCGTTTTCAAAGACCTGTTTCTTTTTGAAAAGGAAGAAGCC
CTGAACAGCATTCCTTTCAAATACACAAAGGTAGCTAAAGTACAACCTTCTCCTCTTTCCTATTTGTTCTTTAAAAAAT
TGTAAAAATTATATTAAGTGTGCTTCTTGTGATAGAGTCAATAAAGGGAGAAGGAGTTTAGCAAAGCACATTTACTATA
TACTCTTAACCCGTCTTGCTTACTGTAATAATCGAAAGAAAGATGGCTAATTGTCTTGCAGGAATTTGGGTTATCCTCT
GAAAGGATACAAGTAAATTTGTAACTTGGGTCGTATTGGCTATTTTTTGTTCTCTTTTGCTTTCATTTTTGTTTTGTCT
GAGGTTTATAAATGGAACCCTTCTTTCCTTTCTTCCTTTTTTCCTTCCTTCCTTCTTCCCTTCCTTTTTTCCTTTCTTC
CTTGCTTTCTCTCTCTCTCTCTCTCTCTCTTTTTTTTTTTTTACAATTGTACTTAAAAGAATAAAGGATTCTGAAAATC
AGTTCCAGGATCCAATAAGGGCCTAGATTGTATATCACAGGATCAGAGCCCCTTGCTCTCAAATTTATGATTGTGAGGA
TGTATTATTGTATTTGGGGGATCAATAAGCAGAGCCAGAGCCTTCACACAAGGCTCCTTGTGCCCCCTCCCCCGCTCCA
TCCCATGAGGTTAAAAAGCACTGACTTTGACTTTAACACTGTGAACAAAATACAGAACAACTGTTTCAATTCCCTTCAC
TATTTCTGCTATGTGCCTAGATTAGATGTTTTCTGACCTGTCTCCCTAAGTTGTTCCTGTCACTTGTGTCTGTCATTCG
CTCCCCCATCGCATCCTGCCCAACCCTCCCTGTCTATGATTCGAATTGCTCTCTGTCCAGATCATTTCCTGCAGTGAAA
AACGAAGAAAGACTTTCTCCCTTCTTCCCACCTACACATTCCTTTTGTCCCCCAAGATATCCCTTCCTCTTGCCTGGAA
TCTTCCCAGGCCTTAATTGATTGATTTAGGCCCCCTTTGCACCAGGCACCCTAGCGGAAGCCCAGAAAGCCCCAAGAGT
CTGGATGTGTTTTGGAGAGCAGGCTCAGGTTCACTGCACACTAATTTGCAGCAGGAAGTGCTAGGAAGCCCGATGAGGG
ATGGGAATTAGCAAATAAGGTTGGCAGTCAATTGACAGAGGAAGCTTAAGGAAGAGGATCATTTTGAAAAGGAAAAATA
ATTTAATCCTTTTCAGGTGTGTTAATTTCTTTCGTGGACCAAATTACCATGGACCTGGAATAGTTGAGATTTTCCCTAA
GGTCTGGCTGTACTTCATAGGGAAGAAGCAAGGGTAAGTGCAGTAAATTTGATTATGGACACCAGTCTAACTCTAGCTT
AATGAGCCATGGAAACAAAATAGCTCAATCTCTTCTAACTGCTGTAATGCAACACTAGGAGCATTGAGAGCACTGTGGT
TTTGGTTACACAAATTTGTAGTACAGGCCTTGCCTCAGCATTTGAACATTTCAGCAAGAGAGCTGAACTTGCTTCGTTC
TTCATGTAGCAGATATAAGTCTTTTGGAATTAATTTGAAAAAAAAAGAAAAGAAAAGAAAAGAAATGTACCCAGAAAGC
AAGAGATCTTAAATGTATCCAAAACCTAGAACAAACAAACATTAACATTTGCCATAATTACTGTGGGTGTTTTTAATAA
AAATATATAGATAGATAATTTTGGAGGTTGCATTTCCCCACCATCACTGCCAGCCTCATTTTTCTTCCATCCTCTCCAG
AACAACCTCTGCCATAAATTTAGGAAATAGTCAACCTGTTCACATTTTCATCTTTTTACTATATATGTTCTTATTCACA
AACGAATATGTTGTAGTTATAAAAAGTCATCAGTATCTTTTAGCTTATTTTTTTAAATGCAACATTATGTTTGTTGGAT
CATTTTACTCTTGTCCCAGTGCACCCTGTAATTCCCATGAATTGACAGGTAGCGATAGATCAGCAGTAGTAAAGTAACT
GATATGGGTAGGTTAATAGAATGACCCTTTTAAGAAGGGATCTCAAAGAGGGAGGCTAGGTAAGCTACAAAATTATCAG
GGCGAAATGCAGTGAGGTAGAAGTGAAAGCAGCTTAGAGTCAGCCTGGGCTAAGATAAATGAGGAGTGGAGCTGCAGCT
GGAGGAGCAAGAGAATATGGTCTACTCGAGTATAAATCAAGCTTGCTGGTGAGCAGTTTAGGACTAGCTCCTGGTTTTA
CAGCAAGACTTTTTATGTGATCTTGACCAAACCACTGCACTTGATTGCTCCTTTCTACTCCTTGGTCCTCACGTGTCAA
ATAAAACCCCTGAATTGCAGAGCCAAAATGCAAACAAATAGAACTCCTCACTCAACCTCCCTCAGTTTATAAGTAAGGA
AATGAAGACCTAGTAAAACATTATAACTTACAGATACCTGTCAGGGCAGAACCAGAAGCTGGACTTGGGCTAGGAAAAG
TTGTTCCCCCCCTGATTACATTTTCCAAAGGTTATACCTTTTCCACAGTTTCTAAGGTAACATGTTGATTGACTTGACAG
TTGTAGAAATATTAGGAAGTGGTATAAAGCCAAGACCATGTTTACTAAACAGTGCTGCTCTTTTTTTTACATCATACAG
ATGAGAAAGCTGGTGCTCAGGGAATTTAAGCAACTTGCCCAGAGTCACGTAGCTTAGAAGTGTTAGAGCCAAGATKTGG
ACCCCAGTCTTTCTCACTTTCACAGACTTGCTTTTAACCACTGTGTTATGCTATGCTGCCTCAGTATAAGCTCCTTTCA
AACAAACCACTTCCAGTCTCTGACATGCAAGCCCAGAAGTTTCAGATTTACAATGGCATACTTTTTTTCTATCTGCTA
AGTGTTAGATGTCACGGTGTCTGCAATGGAGTAGAGCTTTAGAAATGAGGATAAAACATTTGGTTTGATGTTAGTATTA
AGAACTCCAATATCCAAGGCAGGAAACTTGGTAATTAATATTTTAAATGGACTGGAGGGGTCACAGGTATTAAAATCAA
TATTTTGATGGCAAGATAACAATGTAGGAACAAATAATTGGAGATGTTTAGCAAAATTATGAATTAAGTAGATGTATAA
ACGGCAGATTATGAAAGGGAAACAAAGATTACCTGGGAAGAGTTTTGTGTTTTAGTCAACTGAATTACCAGAATGGGCA
GAAAAAGGAAGTATCAAAGAAGGGTCTGCTGATAGAAAATTAAATAAAGAAGAAGATGCCATGGAAACGTTTTTAGTGC
AAATACACTATTGCTCATGGCTGAAGACAGAAAGAAGACTATGTGTGACTTCCAGATGAAGTTCAGGCATAGAGGCAGG
GCTAAATAAACAAGCACATAGACCCGAGAATTCTCGTTGATTGATCTTTGGAAATTCGGTATAAATATGATCAGTTCAA

Fig. 6.318

CCATGCCTTAGCTACTGGATCAAAGGAGACATCTACCGGCTTTGGGAGATAGGAATCTGGAAAATTGACAGACTGAAAA
AACCAAAACCAAAGAAAAAAAAAAACAAAAAAAACAGAGAATGCAGAATGCCATTTTAAAACC TAAGAGGCTGTGTC
TGATGTTACAGGACTCTTTGACTCCATTAGTCTCAATTCTAATATTTAAGTTAAGTGATTGTGGCATAGAATTTTTTT
CAAAACCTGTTTCGAAATGAAGGCTTCCCATACATTGAAGTTAAAAGTGGTCTTGAGAAAAGAACTTCTTAATAGGTAA
GGGGTTTTACTTTGGAATGTTGAAAATGTTTGGAACTAGATAGAGGTGGTGGTTGCACAACATTGTAAATGTGCTAAAT
GCCACTGAATTCTTGACTTTACTATTTTAAGTTTATGTGATATGAATTTCACTTCAGTAAATTATCTTTGTTGGTGCA
TAATTACTGTATATATTTATGGGGTTCATGTGATGTTTTGTTACATACACAATATGTATAATGATGGAATCGGGGTATT
TACGGTATCCATCACCTCAAGTATTTATCATGCCTGTGTGTCCTCTTTCTAGCTATTTTGAAATATGCAATACCTGTTG
TTAACTCTAGTCACCTAATCTGCTATGGAACATTAGAGCTTATTCTATCTGTGTGTTTGCACCCATTAATCAATCTCTT
CATCCCCTCCCCTCCCACCTACACACTCCTCCCAGGCTCTGGTATCTATCGGTCTACCTTCATGAGTTCAAGTTTTTTA
GCCCCTGCATATGTGAGAACATGTGATATTTATCTTTCTGTGCCCAGTTTATTTCACTTAACATAAAGATCTCCAGTTC
CATCCATGTTGCTGTAAATGACGATTTTATTCTTTTTTATGGCTGAATCATATTCCATTGTGTATACCATGTTTTCTTT
CTTTCTTCCTTTCTTTCTTGCTTTTTTTTTTTTTTTTTTTTTTTTTTGAGATAGAGTCTTGCTCTGTCATCCAGGCTGGA
GTGCAATGGTGCCATCTCAGCTCACTGCAACCTCCGCCTCCCGGGTTCAAGCAATTCTTCTGCCTCAGCCTCCCAAGTA
GCTGGGACTACAGGCGAGTGCCACCATGCCCGGCTAATTTTTGTATTTTAAGAAGAGATGGGGTTTCACCATATTGGCC
AGGCTGGTCTGGATCTCCTGACCACGTGATCCGCCCGTCTCGGCCTCCAAAAGTGCTGGGATTGCAGGCATAAGCCACT
GTGCCTGGCCGTATACCACATTTTCTTTATCCATTCATCTGTTGAGGGACCCTTAGGTTGATTCTCCATCTTTGCTATT
CTGTATAGTGCTGCAATAAACTTGGGGATGTAGGTATCTCTTTGATACACCAATTTCTTTTCCTTTGGATAAATACCCA
GTAGTGAGATTGCCGGACATAGTGGTTAGTTCTATTTTTAGTTTTTTGAGAAATCTCCATGCTGGTTTTCATAGTGGCT
GTACTAATTTACATTCCCACTGGTGATATGTAAGAGTTCCCTTTTCTCTGCATCCTAGCCAGCATCTGTTATTTTTTTT
TTATTTTTTATTATTTTTTGCATTTTTAATAATAGCCCTCTAACTGGGGTAAGATGATATCTCATTGTGGTATCAATTT
GCATTTCCTTGATTATTAGTGATGTTGAGCATTTTTTCATATTGGACATTTGTATGTCTTCTTTTGAGAAATGCCTATT
TATGTCCTTTGTCCACTTTTAATGGGATTGTGTGCTTTTTTACTATTGAGACGTTTGAGTTCCTAATATATTCTGAATA
TTATTCCCTTGTCAGATGAGTAGTTTGCAAATATTTTCTCCCATTTAATAGATTGTCTCTTCACTCTCTTGATTGTTTG
CTTTGCTGTGCTATACAGAAATTTTTAGTTCAATACAGCCCCATTTATCTATTTTTGGTCGTGTGGCCTGTGCTTTTGA
GGTTTTAGCCATAAAATCTTTGCCTAGACCAATGTCCTGAAGTGTTTCTTCTGTGTTTTCTTCTAGCAGTTTTATGTTT
AAGTCTTTAATCCATCTTGAGTTGATTTTTGTATGGTGAGAGATAGGGGTCTACTTTCATTCTTCTGCTTATGGGTGTC
CAGTTTTTCCAGCATCATTTATTGAAGAGATCTCCTTTCCCTAATGTATATTCTTGGTGCCTTTATAGAAAATCAAATG
TATCTATCATTATGCTCTCTGTCTACTCTAAATCTATCAGTCCACTCTGTAAAAAATGTGGATTTGTTTCCAGGCTCTCT
GTATTATTCCATTGGTCTATGTGTCTGTTTTTATACCATGTTGCTTTTGTTACTATAGCGTTGTAACATATCTTGAAGT
CAGGTAGTGTGATATATTCAGCTTTGTTCTTTTTGCTCAGGATTGCTTTGGTTAGTTGTGCTTTTTTTTTGGTTCCATA
GAAATTTTAAGTTTTTTTTTATTTCTGTGAAAAATGACATTGGTTTTGATAGGGATTGCATTGAATCTGTAGATTGCTT
TGAGCAGTACAATAATTTTTTTTTTTAAAGAGAAAGGGAGAAAGAATTGGGCACTAAGTACATCAGAGTAGATGTTTAT
CAATTTTTTTAAAAATGGTCTTGGCTACCATAAACTGTGATGTTCATATGTCTTGAGAGCTTACATTGTGTCTTGTTGATTTTGGA
ATTGTTGATACTCAAAGTGCCTGACACATAGACTTGATTCATATGTATTTAATCAATGAATGAATGGATAACTCTGACC
TCCTCTTAGTGAAGTGCACGTCATGGGGCTACCACTTGACTATATGCTGTGGGATAGATCAAAGAAAGGTAGGACACAA
CCTTGAACAAAATTAAAGTAACCTTCAGCTTGTTTATAAAAAGTGTTCTGGTGGAGAAATAATGAATCTTTTCAGATTT
TAGAGTGTTGCTGATTTGATTTCAATTTGCATTTTTAACCATCAGTCTCTGTGGAACTTTAGTTTATAGGTAGGACTTT
TGATTGAGCTTGGTGGCTCACACCTGTAATCCTGGTGCTTCGGGAGGCCGATGTAGGAGGATCACTTAAGGCCAGGAGT
TTGAGACCAGCCTGGGGAACAGACTCTACTAAGAATAAAAAAATTAGCCAAGCAGAGTAGTGCATGTCTGCAGTCCCAA
CTACTTGGGAGGCTGAGCCTGGAGGATCCCTTGAGCCCAGGAGTTTGAGGTTACAATGAGCCATGATCCCACCACTGCA
CACTGGCCTATGCAGCAGAACAAGACCCCATCTCAAAAAGCAATGACACACAGAAAAAGCAGAATTTTAATTTGTTCTG
CTCTTGTCTCTAGCACTTCATATCCATTTCTCTGAATATGAACAGTGGGAAAGGTAGTGGAATTGAAATGGATCATAGA
ATGTTTCCTCTACTGATAATTTTTACTCCATTTGGAGTATGATTGAAGAGCTAATGTCAAGATGCACAGCAGGACTCAA
TGATTGAAAAATAGTGTTACTGATGTAAAAGTCACCATATTTAAGCTTTCTTTATGATAGTCTTCCATTATTTCCTTT
GTCATATTAGCACCACTGGAAAAACACAAGTTATACGTAGGGTAGAAAATGTAATGACAATTTGGTGTTTTATAAACAA
TAATAAATCAGCTTTCATGAAATTAGGCTATGTCCTCTGCTCTGGTGTTAGAACTTACTTTTGCCTGAGCTCACTAAAT
AATTATTTCAATTTCCCAGATAAATGTACTTCTGTGGACAGAGGCCATATGCTGGTAGCCCCTATACAATATATAGAGA
GCATAAATTTCCTCTTCTCTCTTGGTATTTAAAATTAGGATTTTTATAAAATGCATTTTATTCTTATTTTGCCTTCTCC
ATCATTAGAAAGATTCCTGGATCTGTAAACCAAAAATAATAGTAATAATAATGATAATAAGATTTTGGCAATTTAAAGA
GAAATTCACTTTCGTGAATATGGTCACGCCAGCTATCTTTTGAACCTTAAAGGAGGCAGGAAGAACATTTGAATTAAGA
ATTTTGGAGTATTACAACCTCATTTGGTTCTCAGAAGCTTTTTTTAATTTCATCTTCTCCACGCCAGTTTATACAATTC
TCTCATGCCTCACTTTACTTTTATATCTTTTCTTAAAAACAGTTTAAATTGTATCCTCCCCACCCCACTTTATACAATT
CTCTCATGCCTTACTTTACTTTTATATTTTTTCCTCCATTCTTCCTTGTTTCATTCATTCACTCTCCCAAGTCCTCTGG
CCTAAGTTTTATTGTGTGGTATTAAGCAGAGACCAACAGAACAACTGTGAAGACTTCTTGGGGATAAACCAGGTTTCA
CTTGAATTGTGGTGCGTCTGCCATTGGTGTGGAAGCAGGGCAGAAAGAGGACAGAGGCATACCAGCAAGTACAGACATC
TAAACACAAAGAGAGGAGAACAACCTCAGGGATACTCCCTCAGTGCCTGGGAAGAAAGCAAAACTTAAAGTGCTCATAG
AATTGTAAATAAACTCTCTCCTCTTTGAAATTTATGTTCGATGGTTGCTGTGTAGTTGCAACAGTGTCATAAAGTCCAT
GAGGCCTATTTTTTTTGAGTAATCAATATTGTGGAAAAGTGCTAGAGCAGACCTACCTTATATAAATTAATTTGTTTGA
ATTGCTCTATTCACTATGAATAAATATTTATTGGAGTACCTTCTATATGCTGGGGACCTCAGCCATGAGATACGCAGGT

Fig. 6.319

GGAAAAAAATAACACTTAAGCAGCTTATTGTATAGCAGAGAGGTGGTTGAATTGATAGACAATTAAAATACAACGTGTTG
AAAGGCCTGTTAAAGCCACAGGGTCACTCAGTGGCAGGAGGGATTCAGTCAGCCTGGGCCAGCCATGGCAAGTAAGTGG
CCTTTGGAAAGTTACCAAGGTAAGACATACCTGATACGTTCAAGAAACAATTCCAAGGTTCAATAAGGCCAGAAGTTAA
AGGGCAATGTAAGCCCTGGAAACTGAGGCTAGAAAGGTAGAAGGATCTCTTTTTACCACACACTGTGCCGGGCACCATG
AAGAATACAAAATAGCTAGCTATTATGGAGCCTACACTTTAATGTGTGTACATAGATACATGTCCATGTTGGAATTTAA
CTCCTTGAGAGGTCATGAATTACTTAGTCCCGGAAGCATTTGAATTTATACTGGAAAGCTATAGTAGAGAGTTGACAAA
ATATTTTAAATGTAGTAAGAAGAATTTGACAATCTATTGTGTGGTATGCTAGCAAGCCAGTTCTCCTTCCTCCTTTTCT
CACCATCCCACCACCCCTCACAAAAWAAAAAAAAAAAGTTAAAAACCTGATCTGCAGTGTTTGTCTATGGCCATGGTGC
AAATACTCCTCCCATGGCTGGTTCCAAGCTACCACTGGTTCAACAGTTCTTTTGCAGAATTCTTGAATCTTTAACACTT
AACAAGATCCAGTTCCAGCATATTCCTGCAACAGCGATTCTGCAGTTCTCAATGTCAAATAATAGAACCAAAAAGTCAT
ATAAGTACTACAAAGAAGAAGAGAGAGTTGAGAGCCAGCTTAGCCAGGAAATGCTCCAGGGGGAAGTAAGGCTTGAGTT
GGGACTTATAGATAAGAAATGTAAATAAAAAGGAACAAACACTCCCACCGTGATGCACAAATATTGGATCATGTATGTG
TGTGACAAGTGTGGCCGTCTGTAGTGGAGGGTCCAGGTAAAATTTAGGCCATGAAAGCCTTGGTCTGTCAAACTAATAC
ATTTTGTTACATTAAAGTTAGTAGACAGCCATTAATGGTTTTTAAAAACAGATGGTCATAGCAATGTTTTGACAAAAGC
AATTTTTAAGGAAGATTTTGTTTTTATAAAAAGTTGAATTATTGATAGCAGTGAGACCCCAGAATAGAATAAGAGACCT
GCCTCATGTAAGTGAGAGTAATTCAATTCAGCAGTAATCTTGGAAATTTGTAACTTCTGTGGTGAGAAATTGTATCCTG
GGATGTTGGGTAAAGCCACTGTGAAGCCAAAGAAATTAGTGGCTAAACGTAGAGAAATTAAGATGAAGGAACTGGCACA
TGGAGCCACTGTGTACTATAAAGTATTTTTATTGGTATTTAGTCTTGCTGTTATTGTTGCTAATGATTGTATTGAATAA
TTACCAGCTGTTGTTAGTTATTTGAAATTAGGTGCCTAAAGCAACCTCTCATCTTGCAGAAAGTCATCTTTCTTGAAAC
TTTTTAAAAACTTGCTTGAAACATGGAGACTTGGAATGGGACGTCTATCATAGTAGCACATCTGAAATCCTTCTCATTC
CTGCTGTCATTTCTGTCCTTTCGCAGTCCACTTTGTCACCACCCCCACCATTCCTTGTTCTGCCTGCAATCCAGCTTTC
CAGTCACTTTCTCTACTTCTTGCCTGGCTGCAGCGTCATCATTTAAACAGCTCTGGGTTGGTATCTCCTTTCACCAGAA
TTCCTGCAGCCGTGGAGTACGTGCAGAGCATCTTCCTTTTGACCCTCTTAAAATGCTGAGGGGTGTTTCCGACACACAT
TGCTTTGTAATTCAATAATAGGGCAGTTGTGGGTTCTTTTTATTGCAGTTATGCTGATTTTTAAAAGCACTCTGAGTAA
GAAAGGAAAGGTAGTAAAATATACGTGTACCTCGATGCTCATTGATCACGTTTGCACATGTTCTTGCCAAATGTTGTTT
TTAAAACCTGTCTCTGCAGGTCTGAGCTGTGAAAGTTTGGGAAATCAGGGTCAGAAGGCAAAAAAAATTCGTTTGTATC
ATCGTCATACAATATAAATTACATGTAGCATATACATAGAAAACAATCCAAGGGATGAGCTTCCTGGAAATCATTCCTT
CTTGTTTACTCTGATTATATAATGGGGAATTGTATGCTTTATACAATTTTAATTTCTTGAATATATGTGCTCAAAAAAC
ATTATAATGTGGTTCAGTACTATATATGCTGAAAACAGGTTGCTAATGAATTTGGACAAAGATTCCCATTTTATTTCCT
GTACGTTTACACATTTTTTGGCTGTATATTATATTTACTATATATATTTATTAGGACTACAGCAAACGCTAATTCATCG
ACTGAGATAAGAAATGTGTTTTCCATTAATAATTATAAATCTGCCAGAAGATTGTGAGATTTACATTGTTGGGGATCTA
AACAACCAAAATCATTGCAAAGTTATTTTAAAACTATTATTAATTATTTATGTAATCATAGATTATGGCTTGCAGAAGA
CTGAAGAAATTGTTCAACAAACCATGTAGGTTTTGTGGAAGAGCAGTAGACTTTGATAAGTAAGCTCAGAGTGGTCCAT
TAACCTTTTCTCTATATGTACATTATGTGTTGATAAGCATGATATCTATTATACCTCAATTATTAATAACAATATACAT
CCTAACTATTAAGAACTTAGCCTGCAACCCTAATAGTGTCCCCTTTCTTCTAGAACATAGATCAGCATAAGGAAGGAAG
CAAAGGAGGTCTCTAAGCACTCAAAATAGATGTTCACAATGTTCACTCACTGAAGATAATGTAGGTCATTAGCCAGAGA
AATGTATGTTCATATTTTAGTGATGATTCATACAAGCTTGGTCATGTGGTTCTAAACCTTCTATAATTGGATGAAGCAA
ATTAAGAAAGGCTGGGTAGGAGATTTCAGGGAAAGTCACAACTGATATTAGCCAAATGTCAGCTGATGGCCTGAAAACA
ACAACAGAAAAAGAAAATCTACAAAATCATTGAAAACCACAGACATAGCTATTTGGGGCCTTTTTGAAAGGGGCAATA
AGCTCAACCCATCTTTGGAAACACTGAGCGCATCCTGTCTGGACAACTGAGTATAATTTTTGGTGTTCAAACTGATGAC
CCCAAATCATCAAAAAATACAAAATTATATTTGCTCAATCTGTATTGCTCTTCTATATTATGGTAAGATTTCTGTTTA
GTGCACTTAAAAGTAAGACTACCCCCAAATTTAATCCCCATCCCCTTCAATGTCTCCTCCTGGACATTGCTCCATCTAT
CGCCCCTTCTCCCTCTTTCTTTGACCTACTCTTTGATGGCTGCATCTCCTTCAAAACTGGTTGAAGTTCCTAAGGAAAA
AATTCCCTTCCTCTTTGATCCTGTATCTTCCATCAGTTATTACCACATATCTCTATTGATTTTCGCACCCAAACTTCTA
GAAAGTTTACACTTATCATTTTCTTTTTCTTTTCCCCCCACTTATTCCTCTACCCCCTTGAAGTTAGCTTGCAGCCCCA
CCACTCTGTTGCAACTACTGCTGTAGTTCCTCTGCTCTCCCAATTGCCAAACCAAGTAGATATTTTTCAGTTCATTTCT
CATCAAGTTTCTCTAAGTCAATTGCCAGTGTATCCCTCTCAAAAACCTTTCCATCTTTGCATGAGGTCGTACACTCTTT
CTTTTCCTTTCCCCCCACCCTTCCTTTGACCTGGGGTTCCCAGGATCCCATTCTCCATTCCTGCTTTCCTCACTCTGTG
TGTCTTCCAAGACTGACTTGTGCATTCTTATTTTAATTACCACCTGTTGCTGAAAGCCCCTAAATTTATATAGAAATC
CATCTTAACCTCTTCTGCAAAGCTTGGAACCCCAATATTTATTGGAAATTCCCAACTGAGTATCCCATGGGTTTATAAA
ATTCTTCATATCCAAAACCAAATTTAGCTTTTCCTCTAAATTTGTGCCTCCTTATATATCTCAGTTGGTGACACTACCC
AGCTATCATGTTCAGAAAATAAAATAAAAATACGTCATAAAAGCATCAAAACTCTATAAATTTATCCATGTAAGGATTG
CCACCATTAATATATATACTTTAAATCCTTCCAAATGTTTGTATACTTGTATATATTTAAAGGGATCATATTTGGTGACTT
ACTGCTATAACACATTTTTCCCATTTAACAAAAAAAAAATTTTTCTGCATCAAAGTATACTTCAAAATTATTTTTGTAG
TTGCTCATGTTCTAGCAGTTATTTAACTAATAATGTTAAACATTTACATCATCTTTGCAACTTTATTTCTCTTGTTGCT
TTTTTCTTAAGAAATGACTATTGAAAATGACCCCCAAAAGGGTATATAATATCAGTGATAAAAATTAGCTCTTGGAAAG
GGAGGAGAGAATTTTCTAGTGTATGGTAGTAGCAGTAACAGTGGCCTAGTTACACTCAATATCTCAATATGTAATGCCA
TTTATGGACAGCTTACTATGTGCCACACTCTTTAAGGACTTTGCATAATCCTCACCACAAATCTGTGAGATTGGATACA
TTATTGTTCTTATTTCATAGTTGTGGAAACTGAGGCCCGGAGGAGTGAAATACTAGGCCAGGGTCACACAAGTAGTAAG
AAACAGAGCCAGGAGTCCACCTTTGGCAGTCTGTTTCCAAGATTGGTCACCTAACACAATGCTTATCTGCCTTTTGTTG

Fig. 6.32C

TACCCTAGGGCATCCTTTCTACCAGAGTGTACCACTTCGCTTTATGTTTCTTAGAATAAAACCAATAAATAGTGCAGTT
AGTTAGCTAAGTTTTCAGAAATTTTGATAGATAGTGTCTAGAGAAACAAAAAAGACACAATTTCTAAGATGTAGTAATG
AATGTTTCATTCATGTCGGTGATTATTTTGATTTGTTGATGTGTTTTTGATAACAGAGTAGGCAAAAAACATACCATCA
ATTTAATAATGGAATCCTAAGTTTAGGTTTAACATGATTTTTGAAGAAGAATCAATGTGCAAATGTTGATGTATTTTCA
GAGTTATGGTTCAGAAATGTGAATTATTCAAATCTCATATCAGAATCTAAATTTTTAAGAAAGGAATAATAGAATATAG
TAGGTCCCCTACCATCAATTCTACTTCTGTACCCCTATTTTATCATTCATATTTGGCTTGCTAGTGAAGATGCCTTGTA
TCTGTTGTATCACTGGGTATAATGTCTGGCATTTGCAGGTGTGCATGCAAGGAAGGAAAGAAGGAAGTGAGGGAAGGTG
GAAGGAAGAGAACAAGGAGGGAAGAAGGGAAGGGTAGACACTTTGGGAGGCCAAGGCGGTTGGATCACCTGAGGTTGGG
AGTTTGAGACCAGCCTGACCAACATGGAGAAACCCCATCGCTACTAAAAATACAAAAATTAGCCATGCGTGGTGGTGCA
TGCCTGTAATCCCAGCTACTCAGGAGGCTGAGGCAGGAGAATCGCTTAAATCTGGGAGGCAGAGGTTGTGGTGAGCTGA
GATCGCGCCACTGCACTCCAGCCTGGGCAACAAGAGCGAAACTCTGTCTCAAAAAAAAAAAAAAGAAAGAAAAAGGAAG
AGAAAAAGAAAAAAGGAAGGGAAGGGTAGAAAGAAGAGAGGAAGGAAGGGAGGGAGGGTTGAATTATAGATTTCCCCAA
CTGCCTCCCACACAATGTGCTCTAACCATAAATTCTTCATCTCAGTTGCTCAGGCCAAAGCTTGAGAATATCCCTGTGT
CTACTCTTTTTAGAACATCTCGTATCTAATACATTAGAACTCCTGAAGCCTCTGCTCTCAAAATATACCCAGAGCCCAG
CATCCTTGTCACCATCTCCATGGTTACCATCCTATTGCAAGCCACCATCTTCTCTGGCTTGGATGATTGCAGTGGCTGT
CTAATAGGAGACCCTGCATCTCCTCTTGCTGCATAACAGTCTATTCAAAAGACAGCAGTCAGTGCAAATCATGTCATTC
CTCTGCTCATAACCTTGCAATGGCTCCCATTTCCCTCAGAGTTAAAAGTGATTATTGTGGCCCACAACGTGTAGCCCAA
TTTGACCCCTGTTTCATCTCTGGTCTTCTTTTTAACTCTTCTTTCTCTCATTCACTCAGCTCCAGCCCATTAGCCTCCT
TGCTGATCTTCAAGCACATCAGTCACACTTCCATTTTAAGACCTTGGTGCTGCATGAAGTGCTCTTTCCCCCGGTATCT
TAGGGCCAATTCCATTGCTTTAAGTCTTTGCTTGTGTTTCATCTCCATTAGGCCATCCATGACCATCCCATTTTTTAAA
TGCATCGCACATTAATACCATTCCCAATGTCTGCTCTATTGTATGTATGAGTGCTTGTTTCATAGCATGTCTATCCTTC
TAACACATAATTTACTATATCTATTGTTTATTATCTCTCTCCTGTACTAGACTGGAAACTACCATGTGGAACAATCTTC
GCCTATTTTGTTCACTGATACAGATATATATACACAACAGTGCCTCAGCCATGCTAGGTTGCTCAGTACATTCTTGAAT
AAATGAATTATCGATGTACTCAGTTCTGTTACACAGATGATTTGGCTTCTTTGGTTTCCCATTAAGAGCCTTGTTTTCT
TTGCCAAATAATTGAAAGTTTCACTCAGAAGATAAGGAACATCAAAGACCTCAAGCTTTGTGGTCTTGGAAAGCTGTGG
CTTTGGTCTCTGTCTCATTCCCCTTGGGATTTAGAATAGAAAAATGCAGGTGGAGAACACATTCAAACATCCCACACTT
TATCAGTATTTTAAAAGAAAGAAAGTATGGCTTTTTTTTTCTCAAAACAATGTCTTAGTTATAAACTGAATTTGTATAA
ATGGCCAGTTGTACATTAGGGCAGTTGCACAATAGAAAGCATCCAGGGAACAATCATAACCTCAAGAGCCTATTGGAAA
GTGGGATCCTAAATAGCTTTCTATGATCTCCCTAGAAAACTGTAGAATTTCCCCAGAGAATAAGCCAGCATTTTGTTGA
CCATTCTGCAATTCCAGGATCATGCTTGCATAGTCATAGCTTGGAAGGAGGCAAATTGAAACAAGTTGAAAATCTGCAG
GAACTATCCCCAGTGAGACCACAGAAAAGCCAGAAGAAGAAAAGGTGGGATTTGGGGTAGAGAACGAGCCACTTCTCAC
TAGTTTGCATGAAGCATTGAATATCCCAAGGGAGAAAACATTGAAGTTCTATGAGACACCAAGAAAAGTGTATAGATTA
TCACAGCATATGGATAGAGGTCATTTGTTCCCTCCCTCCCTTTAAAGAAAAGTAGCTTTGCAAGCCACAGTTTAGGAAC
AAATGGACTTTTTGACATAGTTCAAATCCTCCTGGGTGTGGAGGCATTGACAGGAGCAATGTCATAAATTGGTTAAAGG
TTGCAGTCTGGAATCAGGCTGCCCTGAATCCCAGCCCTGCCATTTACTAGCTGTGAGACCTTGTGCTTCCTAACCTCAG
TTTTCTTTTCTTTTCTTTTTTGAGACTGGGTCTAGCTCTGATGCCCAGTCTGGGGTGTAGTGGCACCATCTCAGCTCAC
TGCAGCCTCTGCCTCCTGGACTCAAGCGATCTTCCCACCTCTGCCTCTCAAGTAGCTGGGACTACAGGCATGCACCACC
ATGCCTGGCTAATTTTTGTATCTTTTGTAAAGATCGGGTCTCGCCATGACACTTAGGCTAGTCTCAAACTCCTAGGCTC
AAGTGATCCACCTGCTTCAGCCTCCCAAAATGCTGGGATTACAGGCATGAGCCACGGTGCTCAACTAACCTCAGTTTTC
ATAATGGTAAAATAGGAATACCGATAGCACCTCCCTTGGTATAAGGATTAAATAAGATAATCTACATAGTGCTTGAAAC
AATGCCTAGGCAGTGTTCATCAACAGTTAGCTGTGTGCTGTGTACATGCTGGAGCTGCTACCTTGTAGAAATTTTAAAT
TTAAAATGGTGTGTAGTTGGAGGTTAGGAGTTACTAGGGGTATCGCCTAGGGAAAGACAGTTGGTTACCCAGACAGGTC
CTTACAGAGTAGTGTTTTCCCTGGAGAATTAACTATATTCCAGAATCTGTCCTCAACCAAGCAGTCTCAGAAAGGTGAT
CTTGTCACAGCCTCTGAGTAAGCTGATTCAAACTCTCAAAAGCTCACAAGAGCCTTAAAGCCAGAGTATCAGCTGATTC
CTTAAAAGCTACAAAGTGTTTTGGCCTTGCCAACATACGCATTCTCCCTCTTATGGGTAGGTTTAGAATGCTAAATAGT
ACATAACATGGATTTAGAATAGACAGATTTACATATGATCAGAAGGCTCAGTGGTCATAGTTTTGAGGGCCTAGGACAT
GCATGTGAGCAGTAGGGAGATCATCACAGGAGGATGGGCACACTCTCGAGGCTCATACAGGCGCTCCCTCTCTCCATGG
GCAGCACAAGGCAAGTCTCCTTTGTCTTTGATTTACTTGCCAACCACCCTCATTCTAATGGGAACTTTCTTTTTCCAAA
TATGTTAACACCTTCAAGTAATTACTGTCAGCGTCCAGCCTGGGAGTCTCTTGGACACAGTTTTTCATAACTCTAGATG
GATCTCATAATTTGCCCCTGAAAGATGGTAAATAATTTTACTTCTCTTACTTCTGGACTCTAAGGGGGATACTTCACTC
TTGCTCCTTGACCTCTCCTCTCTAGATCCCACAAGCCAAAAATTGTTGGAAAGGATTAATATGAGCTGGGCCCAATAGG
CTACAGCATGCACCAGCCCCTAAAGCCAGCTTTAGGATTGGGCGGAGTGTCAGCCCAGCTTCCACCCCACTTGGCTTAT
TCAGCGACCTCCTGCAATTGTCCTCTGCTAGCCCTTGGCAGATCAGAAATGTTCTAAAGATTGACCTCTATTACTTTGG
GCTTTCCTTAACTTGGCATCCATGAAAAGATCCACTTAAATGCTCCAGATTCAGTGAAGTCTCCTTATCAGAGCTTCTT
ATAGCACCCATACTTTTCTTTCTCAGCATTTATTATGAATGTAATCAAATCATACTTTGTGCATGTTTTGTTGTGGTTG
CTGTTTAATGACTATTTTGTCCATGAAAGAAGGAACTGTGTTTGTTTTATCACTGGTTTATCCAAGGGACTAGAACAAT
GTATGGCACATACAGGATTTAACGAATTTTTTTTAATGATTAATGCCCCTTTAGATAGTGTTTTTCATCTGAGTGCCTC
AACTTCTATGTGCATTATGAAACTGATATAGTGGGTCACAACTATCAGTAAGAAAAAAAGAACTGGAATAGAGTAGAAA
AAGATGAGAATGTATCACGCATAGGGAATAACTTTTATAAATCTGTTTCAGTATGGATAGGCAGGCCTACACCACACAC
ACACACACACACACACACACACACACACACACACACACATTGAGTTCCTATGAATTTGTTTTTTTTAATTTCTTTCT

Fig. 6.32

TTTTTTTTTTTGAGAAGGAATCTCACTCTGTCACCCAGGCTGGAGTGCAGTGGTGCGATCTCCACTCACTACTGCAACC
TCTGCCTCCCTGGTTCAAGTGATTCTCCTGCCTCAGACTCCCGAGTAGCTGAGATTACAGGCACCTGCCACCATGCCTG
GCTAATTTTTTGTCGTTGTTGTATTTTTAGTAGAGATGGGGTTTTGCCATGTTGGCCAGGCTGGTCTAGAACTCCTGAC
CTCAAGTGATCGGCCCGCCTTGGCCTCTCAAAATGCTGGGACTACGGGCGTGAGCCACCGCACCTGGCCAATATTTTTT
AAGGTAAGAATTTTGAGAAACACTGTCCTAGGTTCCCTCTAAAACCGAAGATATCACCCTATGTTCAGCCTTTTAGCCC
TAATCCTTTTCTTAATCTTCCCTATGACCAAATATTACCATGCACACATGCACACACATACACACATGTGTGCACATAC
ACATGTACACTAATCCATCTAAAGTGCTACTGTTAAGGAGGAGCAATAGAAGAGGTGATTCAGGGAATGGTTTTTGATG
GTTATTTACTTTTATAATAGTTTTTATTTGTAAAAAGAAGAAACCTAGAGTTTTGTATCCTAAACAAAATTTAGGATTA
GGATACAAAATAATAAAATTCAAAATAAGTCTTGACTAGTGAGTGTAGAAGGACAGTGCTACATCTGAATCTCCAGTTG
GGTTTACGCATTTTGTATTTATCAAAAGGCAGTAGTGATTTAAAATGTTGATAAACACTCAGTTTCAGTTTTCTATTGC
TGCAAACAAACTATTCCAGAAAGTGATGTCTTGAAACACAACCATTCTATTTTGCAGTCTGTGCTGGGCTCAGCCGGGC
AGTCCTGCTGGTCTTACCCATGGTCCCCAATATGGCTGCAGTCACTCCAGTAGACTGGAGGCTGGGCTTAGCTGAGATG
ACCTGCTTTCTTTCTTTCTTCATGTAGTCTCATGGCTTTTCTCTCTCTCCATGTGGATTCCTCATGTGAACTCTCCAGC
AAGGTAGTCAGAATTTCTTCCCTGGCAACTCAGGGCTGCCAAGAACACAAAAGCCAGGCTTTCTTAATGTTTAAGCCCA
GAACTGGCATGTGGCCAATTTTTTGTGTTCTGTTGGTTAAAGCAAACCGAGTCAAGAAGAGCCTACACAAGTAGTAATA
TTACAAGTATGATGAAATATCATTCTCTTCTTAGACCAAACAGCATATTCCTCCCTCCACTCTTACCCTCTATAATGTT
TTGCTTTTGGGAGTTCCTTTATATGAAATGCCTCCCCTCTACTTCTCCTTCTACTGAAATCCTACTCATCCTGAATCCA
GCTCAGAGCTAACTCAGTGATTTCCTTCATACATCTCTATTATCTCATCCTGGAAATAATCACTCCTGCCAGGTGCAGT
GGCTCATGCCTGTAATCCCAGCACTTTGGGAGGCTGAGACAGGCAGATCACTGAAGGTTGGGAGTTCGAGACCAGCCTG
GCCAACATGATGAAACCCCGTCTCTACTAAAAATGCAAAAATTAGCCAGACATGGTGGTGAATGCCTGTAATCTTAGTT
ACTTGGCAGGCTGAGGCAGGAGAATCACTTGCACCTGGGAGGCGGATGTTGCGAGCCAAGATCGTGCCACTGCACTCCA
GCCTGGATGACAGAGCAAGACTCCAGCTCAAACAAAAAAAAGAAAAAAGAAAAAGAAAAATGCCCTCAGCACTCTCATA
GCATTATGTCTATATTTCATATTATGTCTTGACATATAACTTTACACACACACACAAGCACACACACACACAGATGTAG
CTTGCTTTTAGATTTTAAGTTGCTTATCTAAGATTGGGTGATCAATAACTGTTTTTTTCAAAAAACATTAACTGGTTTT
CTATGACTTTTAAATGACAGCTCTAAATAATTATAATTTCTCACTAGTTTAAAAAGGCAGGTGGTGGGATATTCAAAAC
TATTGGAGAAAAAAAGCTGATGTATGCTACCAGCATAAAACAACAATTGCCCTTTACATCTTCAGAAACCCCTGTACTG
TGCAGTCATTTTCAAACCTGGATTTTTGTCTTGTGTTTTTTCCAAAGTAGTATATATTTAACTTTGTAAAATGGTGTGG
TGTTTTTTGGTTGTTGTTGTTTTTGAGATGGAGTTTCATTCTTGTACCCCAGGCTGGAGTGCAATGGCGCGATCTCAGC
TCACCGCAAACTCCGCCTCCCGGGTTCAAGCGATTCTCCTTCCTCAGCCTCCTGAGTAGCTGGGATTACAGTCATGCGC
CACCACGCCCGGCTGATTTTGCATTTTTAGCAGAGGCAGGGTTTCACCATGTTGGTCAGGCTGGTCTTGAACTCCTGAC
CTCATGATCCAACTGCCTCGGCCTCCCAAAGTGCTGGGATTACAAGCATGAGTCACCACGCCCGGCCTAACATGGTGGT
TTTTTTCCTACCTAATATGAAGATACTTAATGTCTTACCTTGGAAAAATATACATTTCAACCAGTTTATATTTTACAGA
AGTGACTGAGAAATCATAAGCCTTTGTGCAATAACATCATCAGTCAAACACATAAGCAGATTCTAATCTGCCCTCTCTA
TCAATTAGTCTTAAAACTACAAGTTGTTCCTCTATACCAGCTACACATGTGCATTGGTAGTCTTAAATTGTGATATGAG
CCCTTAGGTAGTTCACACCTTTCCAAAGGAAGCTCAGTGAACTTCCTGAAACTGTGTAAAGAATTGTGTGTGCAGTATG
TGCATGTACATTATCTGTATTTTTCTGGGTGGATGATCCAGTATCCTCATCAGAGTCTTAAGTTTGAGAAACCCAATTA
TATATTAGTTGTAAATCTGTTTACTTTCTTAGAATTCTTCTCACATTAAAACTAAGATTATATTTCTATTTCATAGGTA
ACCAATTTCTTCTGGAGCAACTGGACACTTACACGAACACTTCCATCTGTCTTTCATCTTTACATTTTATTTCTAGGTA
TTACTAGTGTTAGGTCACACTCCCTCCTATGGGGAGATTCTCTATCACATCTCTAGAACTTCACCAATGCAAGCCTTCT
TAAATTGACCCACTCGCTACTGAGTCTGACCCCTGGGCCAGTCACATCGGTGCTTGTTAGAAATCAGAATCTTGGAACT
AAATCAGAATCTGCAATTTAACAAGATTTCTAGGAGTTTCCACAGCATATTTAAAGCTTAAGAAGCACAAAGCTGGTGC
ATCTAATACCCCACTTTCTGCTTTTTAATCTTGCAGGATTTATGTTTTAAATTCTTTATAATACTATTAACAATTATCA
TTTGATTTCTATTTTCATATCATCTGACAGTTTTGATTAAATCCTTTAACCTCAGGATTTGTAAGGGGTAAGGGGAGTG
GGTTAACTAACTGATCTGATTATCAAATAATGCTACCATTCAGGACTTATGCATAGTTTCTGTGATTCTCAATAGAATT
TGATGGTACCTACAACCTCTACTCCTTGTTTTAGTGTCTATGTTTTTCCACTGTGCTTAAAAACATTTAAAGGGAGAGG
CTGGAAAATTATTTTAAGATGAATACTATAAATGAAATAACTAAGATTAGAAAAGGCAATGATAATACTGAATTACATT
GGAAAAATTCAGTTTACAAAACTCTGAAAAGTTCCTAAGGCAGAATTTTGCTGCCCCGGTTTCTCATAATAGACCCAGC
AGTTCTAAGTTAAGCACACATCTTTTTGGCTATATGGTGTATATACCAGACTATCCTTTTTCTCCAAAATTTGACTTTC
ATCTCAAAGAGTTTAAGGAATTTGTGACTTGGTGCGTTTGATGTGGCACAGTTCCACATGTGAGGGATGGTGATTTGGA
TAGCACGACAGAAGTACGTGCCAAGAATAATTGGCTTCTGTCTTGCGGAACAGCTCAAATACTATGTGTATCACAGTAT
GTAATTTGGGTGTACAAAATGCCTGTAGTTCAAAGTGCTTTACTCCTCTGCAGTGGCAAGCTGAGCTTCCTGTTGGCTG
ATTCCTTATGTTTGCAGTAAACAGGCTGGGTGCAGTTAGAAAGAAAGCATCCATCTAGTAAGTGCATTCACATCATCCT
TCAAATGCCATAGGCCTTAGCTCCAGGACATTTTCTGCCTGTCTCCTTCCCTCCCTCCTTTCTTTCTTTTCCTCTCTCC
TTCCCTCTTTCCTTTGTTCCTTCTTTCCTCCCTCCCCTTCCCTCCTTTTCTTCCTAGTTCCCCCTTTCTTTCCTTTCTT
CTATTGAATAAAACGCAAAGTAATTCTTTTTCTACTTACTTTGATTCTTATCAGCTTTCTTAAGCAGTTTCCTTGCCGC
TGTTGTGAATTACATGGGGCTGTGGTAAAATGTGGCACATTTCAAGGCTATGTATCCCTTTAGATTCTGGTTCAGTAAG
CTTGGAAATAAATAGGAGAGCTTACGCTTTTAACTACTAGCCTGCGATTCGTATAATCATGTTAGTTTGAGAAACACTA
CAGTAATCACACATGTAAGGGCTTTGGAGTAAGATGGACCTTGGTTATCCAACGCTTACTGTGTGACTTTGGTAAATTA
CCTAAACTTTTCTAGCCTTGGATTTTAATGTGTAAAAGATAGATAATACTAACTCAGTAATTCTTTATGGGTTCCATGA
GACAATGTATTTAAAGCACCCAGCATACTATCTGGTTCATAGTTTACAGTCAATAAATGTTAATTCCATTATTTGATCA

Fig. 6.322

CAATGTAAGACTATTGAGGTTTAATTTTGATTGTTTTTCAAAAGTTTGTAATCTGTTAGGAACAATTTCTAAAGTAAA
ATTCAGAAAACAAAACCATCAAAATTTAATTCAGCTAACATTTTTGAGGTTCTATATAGTCTCGAACATATATTATCTA
ATTCGATTATCACTATAAACCCTGTGTATAGTAGATATTATCATTCCCATTAGTGGATATGCAAACCACGGCTGTGGGA
TAGTTTTACATTTAGTAAGTGGCAGATCCAAGTCTAGACAGCCCAGGCTGGTTCTCTTTATACTCTGCCTGGCAACATT
TGCCTTCATCACTGTCTGTTTTCAAAAGTAACTAACCTCTACATCCCTGCTCACACATACAAATAGCTCTAAAGGTACA
AAATAAAGCTAATTTTCTGAGCAATTCATTTTATTCAAATCAGTCTAATGATCTGTTCCATGAAAAATGATTATGTAGC
TCAAAGGTCTTCAAACTCGTCTCAAACCAGGGGTCAGGCAGATCATATTCACATAAAGGGAGAAGCTTGCCAGCCAGAA
GTCAATAAAGATTCCTGGGACTGGGGTGACCTGGAAGCTACAACCTGTTTAAAGGAGACAGCTTCTGCCTAGCTCCAGG
CTAGTGCTCAAGTGCCAGGATGTGGGCTCCCTATTGTCAAATCTTTTTTTTTTTTGCTTTTTTAAGACTGGAAGAAATC
CAATATTTAATGCGAAACTTCCCATTTTTGAACAACGTGTGTGGGCCAAACAAGTCACATCTGTGGACCAGATCTGGCC
TGAGGATTGCCAGTTTGCAATCTTGACCTAATTGCCCTTAATTCTTCACTTCTCTTGACCTGGTAAATACTCCATTTAA
ATGAGTATTAGGTATGTTCTGGGCCCTTTTGGACTGGGTCTTTGTAATATATACAAATTTCAAAGACTGACCTTTAGTT
TTTCAGGTTCAGAATTGATTTTCTCAGAACCCAATTAGATCAGGTGCTGTCACTGACACTCAGAACTCATGAACTTTAT
GCAAGAGCAAGAACATGAATTAGGGAATTCACAGTGAGAAATATATTGACAAGTAGACAGGATACCATATTGGCCAGAT
CAGTTCATTCTGTCCTTGTAGTTCAGCCCCTTGAGAAACAAACTTCTAATTAGAAGCTGCTTTGACATATATGGAGTCA
GAAACTAGGAACTGTAGACTTTAAAGGGCTTTCCTGCATTGGGTTTTGAGATTCTTCCTCCTTTTATGGTAGTCTTAAC
ATTCGGCTGTTAAGTGTTATGCTCCCCCTCCCCAGGCATGCCAAGTATATACTGACCAAGTGTCTTCTTTATTTAGCTA
CCATATGAGTGGTTCTCAAACCCATGCCCTTGTTAAAACACAGATTACAGAGCCCTATGCCCCACAAATTCTGATTCAG
TACTTCTGGGGTGGGTCCTGAGAATTTTCCTTCTTATAAGTTCCCAAGTGATGCTGATGCTGATGAACTGCTGGATGGG
GAACCCCCTTTGAGAAGCACTGGGTTCCTCTATCATCTTCAGCTGACAGGCTTTTTCCCCTTTGAAGGGTTACCGCTAT
TGTCTGTGTCTCTGCTTTAATATGCTAATATAGCATTATGGTCATATCCAGATCCTGAGGTTGGAACCTGGGTCTTAGA
ACAATTTTTAAATTGTTTATATTTTTAAAGGTATTTGATTTATTAAAACTATTTGATTACTTTATTTCATCAAGTCCAA
GGTGCCATTGATTATAAAAACATGTCTGGATTTTAGAGGCATTAAAAATGTAGGGGCCAGGCGCGATGGCTCATGCCTG
TAACCCCAGCACTTTGGGAGGCCGAGGCGTGCAGATCACCTGAGGTCGGGAGTTTGAGACCAGCCTGACCAACATGGAG
AAACCCCATCTCTACTAAAAATAAAAAATTAGCCAGGAGTAGTGGCACATGCCTGTAATCCCAGCTACTTGGGAGGCTG
AGGCAGGAGAATCGCTTGAACCCAAGAGGCGGAGGTTGTGGTAAGCCGAGATCATACCATTGCACTCCAGCCTGGGCAA
CAAGAGCAAAAGTCTGTCTCAAAAAAAAAAAAAAAAAAAAAAAAAGTAGGGAAAAAATTAACAGTTTCAGAGGTACTGCAA
ATTAGTAAATAAAGCCTCAGTTTGGGGCAGTCTCCCCTGGATTATGTTGTATGTGTGTAGCTCAACTCGATGGGCACAG
TTGAAGGAAGGATTCCCTGGTATGTTTGTTAAACAAACATAAGGTGAATTTTAAGCCTCCCTTCCCCAATTCTTAGTGG
AAAAGACACTACTGGTACTGTGTCCTATGGCTGACTTTGTCGTCTAATTGAAATATCTTATTATTGTATGCATCCTCTC
CTACTTAAATGTGACCCTGAAATGCCAGATCTTTCCTTTGGAATGAATCTTTTTTGTCTTATTGGACTGGTAGGGCTAT
GCACTTAAAAAAAAAAAAAAGTTGATTATTAGACTCACTGTTTCCTTGGCCAGTCAGGAAAAGATATTTAGGACAAGAG
TTTCTCAATTGTCCTCATCCAGTTTTGCCTTTATAGTGAATTTCAATAAATATTACCATGCCTATGTAAGAGGGTGACT
GGAGAGGCAGAAATTCTATCTGACTGTCCACTTCTAACTCTACTATTGGAAAACCTGCTAGGGGTTTTTGTATTTATTA
TTTTTGGAAAAATCATTAAGTGGATTCCCTTAGCTATATAAACATAAGGCCTGTCATCTTTTTCTTTGGAGAAAGAGTG
TGACAAAATTTCCCCCTTCTTATTAAAAGCTACCCCTCCTCTTGGTACAGTTTGAGGATAGCGTGGACCAAACTACCTA
AGAATTCAGGAGTCTACCAGGAGAAAAGAGACTTTCTCACTTTGTCCCACAATTAGAAGTACTGAGGAAACCCATGAGA
ATGGATGAAAAAGGGCAGTCCCATGGTGTATTGTCGGGAGAGAATGCTGATACGGCGGGCCCTAGAGGGATTAATGTAT
CTGTGTAGAGGAAGGGGAAACCTAAGCTGCCTGCTCAAGAAGAGCATCTTAGATTGTTGAGTGAGGGCTGATCTTTACT
AAATGAGTTAAATCAAAGAGCCGAACTCTTGGAGTCCAAGGCTGGGCATGGAGACCCAAACCAGCAAGGACACAGGTCT
GGACAGGACCATTGTTCACTGTGATACCACATGGCAGTGGCAGAAGCCTTCATACCAATTGCCGTCCTCTCTACACCTG
AAGTTTAGAAGCACGACTCTGCTTTAGACTGAATAATCCCTGAGGTTCTTGGGTTATTTGAAAGAGGGGTAGTTTTCAA
AAAGAGAGATATTAGATTTCCTATTGAAAGGGCAGCCCTGGTCTCCAGTGATTAACTGGAAAAACAAAAGAGATATAAC
AATTTTTACATCTAAGTACTGTGCTAGCTTCTGTGGATCTAGAATCAAATGAGACAAGATGTAGTATGACAAGCAGTTA
GACTCTCAAGAAAATCATTCAAGTCTGTTTAGGAAAACTGACATTCATTCATTCAGCAAACTATTGAGTAGCTCCTGTG
CATCAGAACCTGTATTCACAGTCAACTGAAATAAACACAATTTCTACACGAGTGGAGTTTTCCAAATAGACTAAGATGT
CATAATGGACTGTGTGTAGAGTAATGTTCAAGTTTTTTTTGTTTAAGCTTCCCCATCCCCCAGAAAATACTGGATATAT
ATAGCAAAACCTTTCATGGATAATAATTGACATATACCTTGGAGGCCATTTGGAATCTCCATAAACGAAAGAAGAAAGG
GCATTTCAGACAAAGGGAACTACATGTACAAAGTCACAGGCATGTAGAAAAAGATGAATGTTTCGGAGTAACTTACAGT
ATGTAGGGCGCAAACAGAGGAAACGGCAAGGAATAAGACTATGTGAGAAAGCAAGTTAGGGCGACCTTATTAAAAAGTT
TATAGACAGTGGCGCACCGCCAAAGATGTAGAAATGTGGCTTGCTGTGTTCTGTATTTTGGAGCAATCACTCGGGTACC
CTGTGTTGTGAGTAGGGGTGAAAGAAGAGAATCAGTGGAACCATGGGAAGCAGTTTGGGAGATAGGTTGGAAAAATATT
GGAATGTTCTAAGCATGACATTGTGAAAGAATGCTAGAATCTTTTTCATATGAGGGGTGTTATGGAAAATAAAGAAAGT
ATTGGCCCTGCCCTCAAGAAGCTTGGAACATAAAAGAAGTAAAACATGAGAGCAGGGCCTAATAATGTATCTCAAAGTG
CTGAAGGAAGCATATGCATTATAGAAGTTCTCATCCTGGACTGTGGTTTGTTGAGAATGCAGCTGGGTGGAGTCTGAGG
AAGTAAGTGATGGCCATAATCGAAGAAGAGATAAGAGGTAAGAGCAATGGCTTAAAAGCAAAAAAGCCTCAAAACATTC
AAACTTCCTTTGTATAATAGTGGATGTTATTTTGAGAATGTCAGTTTCAGGAGATACCATAATCATGTGTTTGTCTGTA
TTTAAAAAGCCACCACCATAAAAGATCTAGAGTCACTCATGAAGTTCAAGTACCAATTTTTACCCATGAGTGTGGAACA
TTCTGCTCTTTTACAAACAGTAACTCGTACTGTCACATTTTGCGGCGCATCTCTCATTTTGTTGGTTATTTAGTGGCCA
TGTAAACATGTACATGACTTGTGGTGAATATGGTGATTCTCACTTTATAACCAAAGAGGGTGGATGTTACAGCATATGA

Fig. 6.323

GCAGTTATGACTGTAAAGCCTGAAGTGTGAGTCACAGGGTCTGACCCAGGTAGTAAGATGTGTTATTTGTTCATGTTGG
TTAGCTGAATTTCCTGGGCTGACCTCACTGAAGTTTGCTCCAGTAAAGAACCGGATCTTTACTGATAGATCAAGGATCT
GAATTCTGCACCTAGTTCTTTGGCTAACCAGTTGTGTCCTTTGGGGAAATTTCTTAATCTTTCTGCTCTCCATTTCCC
TTTCTGTAAGTAAGGGATTAGACCAAATTCCATCCAGGATTGAGAAATTCTATGGTGTGACAAAGACTGCTGGTGCTGA
CTGAATATCCTTACAGATTTGTTCATTTAGTAACCAATATAATAAAGATGACTGACTGAATCTTAATTATATTGGGTGA
CATCTGCCTAGTCAAAAGATTGCATTTCTCAGGCTTTCTAAGAGATTGATGCAGCCAACTACATGTTAGCAGAGGGAGC
TCCTGCCTAGAAGCACTCACTTTTACTCCTCCTCCCGTTTGTGTAGTAGTGATTTGGTGCTGGTGCTGGCTGGAGCATC
AGTAGCCATCTTGTAACCTAAATGGCAGAATTGAGAATGGAAGCCATGTGTTACGGATGGTGGATCAGAAAGATAATAG
GAACCTAGGTCCCTGATAAACATGGTGTCACCATTCCAACCTTGACCTGTTTCTAGATTATTTTCTTTACTTTTCTTTT
TCCTTTCCTCTTTTTTTTTTTTTTTTTTTTTTGAGTCTTTCTCTGTCACCCAGGCTGGAGTGTAGTGGTGTGATCAGGG
CTTACTGCAGCCTTAGCCTCCTGCACTCAAGCAATTCTCCCACTTCAGCCTCACGAGTAGCTGGAACCACAGGTGCATG
CCACCATACCCAGCAATTTTTTTTTTTTTAATTTTTTGTAGAGATGAGGTCTCACTATGTTACCCAGGCTGGTCTCAAA
CTCATGTACTCAAGTGATCCTCTTGCCTTGGCTTCCCAAAGTGCTGGGATTAAAGGCATGAGCCAACATGCCCAGGCTA
CATTTTCTTAATATGAGATAAAAATAAACCTCTTTCTTATTGAAGCCATTACTAGATGCCTAATTCACTTTCTAACTAA
CATATTAGCATCAGATTATCTTTATGTAATTTCCATTGCTAGGTTTTCTCTTTGCAGTATTGGAGACAATAGCTTACCA
ACTAGCTTGGGAACTTCTTAGTGCTATTAGAGTTTCAACACAATTTACCAAATTTCTAAAATTATTTAGTTATTGGATA
TATGAAAACATAATCACCATATGTGAAGAAAAAACCACCAATGTTTAGTACAAAAATTGGGAGGGGGAATATTATATTA
GAGAAAGTTTATTAATCCAGAAAACCACAGAATTTAAAAAATATTGGAAGTTGGGAATTTGGGAGTTAAAGGTACATTT
GATCTTTGGTTAATGGCAAGTTCACATTTTATAATAGGATGTAAAACCCTATTTCTCACTGCACCTGTACTTTGATCTT
CTTGTCTGTCATTGCAATGTGATTATGAGGATTACTGGGTCACTCTCAGCCTAAGATGTTTTTGTGACTTAATTTTCTA
GGAGAGGAAGGGGATCATTAAAGGATATCATTAAAAGGAGAGACACAAGGCTTGTAATTGACCTTCCTTGAAAGTAGTC
CCATCTGGAAGATTTTATCAGTAAACATTTATCAGTGTATTTGGCTTTTAAGCAGACTCTTCTCCTCTTGTCTTTGAAA
CAAACAGGCAAAGGCTAAAAAGGAACACGTTAGTGCTCAAAGTTTGCTTCTTGTGCATGCTGAATGGGAAGAAAAAATAA
TATTTAAGAAAAAAGCTTTCTTCTAAGTTAATTACATGATTCTTTTTTCAGTTTTGCTTCAATGTTTCTGTTTGCCAAA
TTTTAATTGGCAAGTTATGGTGTTCTTCAATGATTATGCCTTGGTGTGATTTGCTTGGATGTGTGTTTAGAGAGTGGAG
GGTAGAAGGGATGAGATTTTTGTGAAATACAGTGAGCAGGGGCTTAGAAAACCTACTGCAGTTCTCTGTGTGACTAAGC
CCAGCACTAGTCTGAAACTTCGTATTGTACTTCTCTGGAATGCAATAACTATCGTCAGGAAGACAAACGTTGCTGTGGC
TTAAATAAAATAAACTGACATGATGTATTACCAGTCAAAATAAATTACCCAAACAGTCTTGTAAAGTTGTGTTTTTTGG
TCATCAGAACTGCCTCATTATTCATGTGTCTGTTTGTCTCTTTGGTTAGTTTTGCTTGTTGACTTGCATGTATCAATGA
TCACAATCCTTGTCATTTGCCAATTCCATATAAACTTTCAGAAAGTGAAAATTGCTTTTAAGAAATTTATTTTGAAGTT
TCTACTTATATTTACCCACATAATGCCCCTCACTGATAGCCAGCTTTGTTTCTTCCATTCCTTTGAGAATACTCCCTAG
TGAATTTAAAGAGTAAAATCTGATGTTGTGGATTATAATATTATACACCAATAAGTGGTTGTTACACACTTGTGTCCAC
ACTTGGTAAGATGTCCTTGTGGATGTATCTCTTCTATGTATAGTATATTAATGGCTTTATCCGCCATTTAATGTGGTTC
CCATGAGGTTTAGGTAGACCATAGATACTGTTTCAATTAGAACACTTCATGAGGATTTAGTTTCTCTGTCTATGGGTCC
TGTATCTGAACTCTCCATTTTTATTCTTTTGTTTGTTTTTTGTTTTGTTTTCTCCCTGATGCCTGATATCAGAAGAACT
CTCCATTTTTGGCTTCATTCTCTGCTCTATCCACATGAGACAGACCAATGTCTGCAATCTAGTGCCATACCTTTCCAGG
TTTTTTATGTCCAACAAAAAAAGAGAGCATCTCTTTCTAGTAGCTCCCACATAATTAAGGGTATAGCCCCTCTCCTGAA
CCAATCAGTCAATCACAGTGGTCCCATCTGACCATGGGGATGTTCCCCAAAGGAAATCAGGGTGTTATTTTTCAAAAGG
AAGAAGAAATAAATGCTGGACCTTCATAACAACCAATTGCCCACTAAAAGTGCAGTCATATTTCTTGATGAAATAGAAC
CTCTCCTTGTATACTGGGCTCCATGACACATTGATCATGGTTAGCTAGAAGATTCTGAAGTCTTATTATCCACTTTGCC
AGTTACATTTATTTGTAGCTCAAGGGGACTGTTAAGGGAAAGGGGAGCAGTGCTAAAAACAAATCCCATTCCAATATTA
TTAAAAAAACCATTGCTCTGCCCTTCCTTTATTCACAACTTAGTTCCTCATCCTCATCTTCCCCAGCTCCTCCTTTTCA
GCTATTTCCTCTGTAGGTGCCCCTACCACTAACTCCCACAGATTCCCCCATCTCCTTTGAAGAAAAAAGCTAGATGCTC
CCACTCCCTTTATTTCTTCCACAGTAACCAGCTTAACTAGCACACGGCTTTGTACATGGTACACAGTTAAGTAATATTT
GTGAAATAAATACGGAACACTTAAGGGAAATAAAAAGCAATCTATCCTCATCAAGAATGAGCTGAGAATCCCTGAGATA
GCCTATTTAGCAGCTTAGCCTGAATTCTGTTTTAGTTTCTGTTTCTGGAAACTCTTCTTATTTTAAGAAAGAATGATTC
TTATAATTATTTCATATTTGTTGATATTATCCAGTCTTAGCCAGTTATCAAAATGGTCTTGAGAATTAGGAGGGGAAAG
CATAATGTTATAAACATTTCAGCATATTGTGCAAGTAAAGTCCTGGTAGTCTGGGTAATTCTAGAACTCGAGTAGACTT
GAAGTGATATCAGAGGAAAGCTATTACCCAAGTTTACTGCTTGCTAATCAGGCAGCCAGCAATAATGAGATGGTACAAT
AGAAATGTTCAAAGTAAGGTTTCTTGGCATACATAGCTATTTAATTATTTTATTTCTGAAAGAACTATAGCTCCACTGT
TACCTAAGTTTAACCTTTAGGCATTTAATATAATAGTATCTCTAGTGTAACAGAGGGAATCAATTACTATGATAAACCA
TATCCTTTGTAAAAGAATACTATAATACCAAGAAAGGCTTTTGTCTTCATCTTTTTAGTTTTTGGTTATTTTTTGTTCC
ATTCCCTTTAGGTAAGAATAAGCATCTAGAATGCCTCATTATGAGATTGTTAATGAATATTTTCCATTGTAATTTAATA
AGCCTAAAAATAAGAAGATACTCCTCTACTTTGTCATACAAGATCGTTGAATGGTGGGTCATTAGTTGATAGCAAAAAG
TCACTCATTCTTAGTTATGTTTCTGATGACTTGAAAAATTGAGTGGCAGTATACAAAGTCTGAGCAAAACTGACTTCAG
AATGAGTATTTGGCTTTGATTTCTCATGGCATCTTGCCCATTGAGCCATCTTTTCAGAGGTCTCAGCTGTATGAAAAAA
TAGTACTTTTTTTTTTTCCAGAAACATGAAGTCTGGCAATCTTTATAACTTTGTGCAGCTTGTTGATTCCCGGATTCAAT
GGTGTTAGTGAAAAAGAAGTCTCAGGAGCTCCAGAGTCTCAGAAGAATGACAAGAAGACCCCTAATTCTTGCCTGTCTC
TATATTTAGTATCCAAGTTGGGGATAAAAGCTAGTTTTTAAGATTTTCTGTTCAGAAATCTTTTCTATATACTATTCAG
AGGCAGCCCTTTGTTTAAACCTTTTTTTGTCTCAGGCATGGATTAACTGCAATTGGATTCTATGTTAAAAATGTATTTT

Fig. 6.32ζ

TTTGAACATTTTGTAGGCATCACTCCAGTATTTTCTATTGGTGAAATCCTGATCTTTTTCTGTGTAGAAATTTTTGTGA
CCTTCTTTTCTTTACTGAAGTTCCCACATTTCATGATCAATTGTCTTGGTCTGCATTTTTATCCATTGCCCTGGGCACG
CAATAGACCTTTTCACTCCAGAGATATGAGTCCTTCAGTTCTGAAATGTTTGCTCTTATTCATTGATAATTTTATGCCC
TCTATTTTCTCTGTTCTTTCTTCCTTGAATTCTCATTATCTTAGTTGGATCTCCTAGATCATATCCTTTAATTTCTTAA
TTGTTTTCTTCCTTTTTTGTCTTTTTGTTTTTTGGTCTTCTAGAAGATTTGTTCACACACATTTTTATTTTCCAACCTT
ACTATTAAAATGTTTATTTTGGTCATGATTTAAAAATAATTTAGCACTCTCATTCTCTCCTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTGAGACGGAGTCTTGCTCTGTCACCAGGCTGGAGTGCAGTGGCATAATCTTGGCTCACTGCAACCTCTGC
CTCCCAGGTTCAAGCAATTCTCCTGCCTCAGCCTCCCGAGTAACTGGGACTACAGGAGCATGCCACCACACCCAGCTAA
TTTTTGTATTTTTAGTAGAGATGGGGTTTCACCATGTTGGCCAGGGTGATCTCGATCTCTTGACCTCATGATCCGCCCA
CCTCAGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCAACATGCCCAGCCTCATCCTCTCCTTTTTAATGGTATATG
TTCTTATGTCAGAAGTGTGTTTTATCTAAGGTCACAGATTATTATCCTCTTGAGGTTTTCCTCTGTCTCTCTCTTTCCT
GTAGATTTCTTTCTTCAGTTGATGTTTGCTTCTTCTAGTTTCTCTTCTTCATTATGGAGAGTTTCCTTAAGAGGCTGTT
CATTCTTAGTTAAAAGCAAGACATATACAGGTGCATATGCACACACACACAAAACAAAGCAACAATGACAATGATGGCA
AGAAACAATGTCAGAAGTTCTGTGATCATGGATAGGGCTCGTCAACTGTAGGGTTGCACTGTTGCATCATAGGTTGTTC
AATCAAAGCCGGTGTGTTCTTTGAAATGTTTCCCCAAGGTCATGATTAGGGGGTACCCCACTTTCTGCCTGCGAGATTT
GCGCCTGGGGCATATAACTGACTGCTAATGTCTGGGGAGCATGACAAATAAAAAAGTTGGGTTTCTTATTGCAAACTCT
ATAGGCTTTCAAATAAGCACCTATTTCGCAACCTGCAGCCTCTCCTAGTTTGCTACAGTGCCTAGTATCATCAGTTTCA
AATCTCTCTAGCCGATTTCCTCCAAAAAAGAAAGACTCCGCTTCCAGTAGGTAAGGGAAGTAGTTAGTTTGGATCCAAA
GGCTCCATATAATTTTAATACACTTTCAGCCCCTCGCTAAACTCCTGCCTTCCTTAATTCTGCTGCCTCCAAGCAGTAA
GTCTTTCTGGATTCGGGAGAACACATTAGTCCACTTTCTCTTGGAATTTACTCTCCGTAACCATTTCCTCGATTATGCT
AAGGCACTTCAGCTATTTTCTGATTTCAAAAAATCAGTAGAAATCTCTCCTTTGCTGATCTTGTTTCCTTTATTATTTG
TGCCTTTGTGGGTGGGTGTGTTGTGTTTTTATTCCTTTACTTTCACTTCAGTGAAGTATCAGTAAAAGAGAAAGAAGAT
AAGCAGGCATGATTTCACCCTCTCTTACTGGAAATCCAGGGGAACGATAGCTGAGGAGGAAAGTAGCTTGGAAGAGCAC
CTTAGAGTAGAAAAAGACGGGAGAAGGTGAGTTTACAAAAGTACAGCAAGATGATGATGATGATAAATAAAACTCAATG
CGTGCTCACTATGTATTTGCACTGTGCAAAGTTCTTTACATGGATTATTTATTTGTGTTTTTGTAAGAACACCTCAGGA
AGTAGCTATTGAGACACAGAGAAGTAATATGACTTGTTTAGGTTAGTAAATGGTAGAGGTGGTATTCAAATTCAGATCT
GATTTCAGAGACCATCCTCTCAACTGCCACACTATCTTGCCTCCTACAAATTGCTTAAGCAGGGATTTAAAATGAAACC
GTACTTTTTACAAAAATCATTTTTCATGTCCATTATTTAGGAGTCTCTCTACTCTATCAAAAGTATTAATTGACCTATTT
ATTAATATCTTAGTAATGTAAAATGCTTTTAGGTTTGCAAATTAGTAAGAGAAACTTCTTCAGATTAATAGATGCTGTC
TTTATGAGGACTGCATGAGACTTATGTACTCATCATTATATACACCCACAGACGATCTATTTGAATTCTGTACTCTTAC
TCTTTTGTTAAATAAATGTACTCTTTCTAACTATGTTTAAATCATCTGCAAAGAGATGGAAGCTGTGTGTATACAACA
GCAAACATCTGGAAGAAAAGAATATTCAGCCAAAGCTTGTTAAAGAGATTCATAAGCAAAGTATGCCTTTGAATTATGA
AAATGAATTCATGTCCAACATCATAAAGAACTCTGACATGTCTGTTTATGTTTCAAACATGGCTTAGAGATCACTGAGA
TTAAAATTCAATTAAGTGTGCTCTGTTGTCTTTGCTGTCAATTTCAGTTAAACCAGACTTGTTTGGCAGTTTTGGGGAG
AAAAATCTTCAGTGTTTTACCTTGCTAACATTTTACCATTTGGACTTTGTGTTTTTTCCCARTCAAATGCATGTCATTT
AAGGAGATGCTTCATGTTATACACACCTGGTGATTTTCATCAGCAGTTGTACAGATGAAAGAGAAGTAAAAGCCCCCAA
ATAATTCATCTTTTAGGCTTTGTAAAATTATCATTTTATAAATTTTTAAATTGTGAAATATAACAAAATTTAAGAAAGT
ATGTAAAATTTAAATTTTAAGTTTAACAAATTGTTCTAAAGTAAATACCTACTATGATCACCCCTCAGAAAGACCCTAT
AATTTCCTGTTTCATCCTCTCCAGATAGGTCACCACTATCTTGACTTTACTTTTACTTTTCCTACTTTTCTTTATGATT
TACCACGTATGTATGCATGCCAAAACAACAGTTCAATTTAGTTTGTTTTGCATTTTATGTAAATGGACTCATCTTGTAG
ATACTCCTGTGTTTTGCTCCTTTTGTGCAATATTATAGTTGTAAAATTCATCAATGTTGTATGTAGCTGAGGATTGCAC
ATCATAATATATATCATGATATATAGCATTCTRTTGTATAAAGGAACCACAATTTACTGTCCAATCTTCTTTCTTTATG
CAGTTGAACATATCCAGTTTGGAAATATTATGAATAAAGATATTTCGAACACTTATGTGCGTGTATCTTGATGCACATA
AGCGTACATTTTTGTGGGGGAATATACCTAGGAGTGGATTCATGGGTCATGCATATCTTTAACTTCAGCAGATAAGCAG
AAAGCATTTGACAAAGTGGTTGAGAAGGTAATGAGAATTCCTGTTGCTCCACGTTCTAATAAAAAACACTTGGATTTTC
TTTCTTTTTTTTCAAATGACAGGGCTCTATAATGGGATCATTGCATTTCTCTGATTACTAATGAGAGTGAGTACTCCTT
CATATGTTTAGTAGATATTTGAATTGTATTTGTTTTTGTTGTTGTTGTAGCTCTTCATGAAAAGTACTTTCTAAACAGC
ATTTCTGAGCACCCTTTAGGGAGCCAAAGGCCAAATAAGTTAGAGTATTTGTCACAACATGGCAATAAGAGAGGCGAAT
TCATCCATTAATTGCTTGCCATATGCTTATCACTGGAATATATTTTGCAGCATCTCCTGACATCACTATTTATCCCTTT
TACCAAAAAAAAAAAAAAAAAAAAAGAAAAAGAAAAAAAAAACATGGCTACTGATAATACTTGGGAGCACTCAACGAAGG
TCCCGTCTGAGACTCTGTAGAATATATTATAGAATGCAAATATTCTTTGGATTCCGTCTTGTTGTTGTTGTTGCTGTTT
CCTACCCTACAACTTTTGGCATCTCTACCCAACATTTTTATAATACAGGACTGTCTCTGAGGTTTGTTTTCCTTATGGT
TGTTCTCATGTATAAAAGAGATGATGATAGCGTTTCTCATGCCAGTATGTCTGTGTATGATTTATGTTGTAAACAGTGC
AAAGAGCTTTACAGCCATTGTCTCACTAATCTTCAGAGCATCTTTTCGAAATAGAGAGGAGACAAGTGAATCAACATCC
TCTATATCACGGGAGGAAACATATCTCCCTGTGGAGAGATGTCCACTGCTTTATCGACAAGGCACAAAGCTGCGAACAG
AATTCAGGTTGTATTCTGACTCCTACACTAATGCCTATGGACTAGACATGGTGTAAAATTTTATATGCGTGAAACATGA
GGTGTATTCATCAACTGATCACTATTAGCMACTGGCTAGAACATGAAGTGTTTGTTTGTTTTTCAAAAGAAAGATATGA
TGAAACTTTATATGCTTTTACACAGTTCTGATATTTTAACAATTTGACTAATTTTTATAGTTTTATTCCTTCCAGAAAT
TCCTTTAACTGTGCTTATCCCGTAAGTAATTGCTAATGTTCTTAAACTAATCGAGAAAATCATTTCTATTAGTCCCTAA
ATACCCAGACTTCATACCTTCTTGCTTCCCACTCTCCTCATATCTAATCTCTCCCTTAGGTTTAGCAACAAAATGTGCA

Fig. 6.325

GCTTGACRTGGTCAGTGGGTGTCTGAACATTTAGTGCTAGTGTTTCCTCTCATCTCTCTGCTTTTATTTGGACTTCTCA
ACTCTTAAAAGTAATTTTAACATATTATAAGAAATCTTTGAATTTATAACACTTTACAGTTT TGAAAGACTATATAAA
GGTTCCTTCTCACAGGCTGTAAGGGGTACAAGGACAATGAAACTCAGATGACATCCTTAAATGCACTCTACTATTATAT
GGCTAATTTAAGATTAAAAATCTGGTTTCATAATTATTAGTCTAGTGGTCCTTTTATAGGCAGCATAATACAGTTGTAA
GGAGTACAGACTGCCTGTTTTTGAATCACTGGTCCATGCTAACTAGCTGGCTTACCCTTGGGCAAGTTACTTGAGGTTC
TCTGTGCCTCAGTTTCCCCAGCTATCAAATAGATCTAAGAGTTGTGAAAATTCAATGAGTTGATACATATAAAAATACT
TAAAGCAGTGCCTGTCCAACATAAATGCTTAATAAATGTTAGCCCTATTATCTTTCCTCATTATTTAGTGTTAAAGAGC
AAGAACATCTATAAAAATAAAAATCAAATAATCCTTCAAAAATTCCTGAATATTATAAAACTAACATATAATGTCAACT
AAAATTGATACCAATTAGTTTCCTTATCTTGAATGAAATCAGTATTGTAGTCAGAGCCAAGCTACTGACCTGGATTCAC
ATATAACATTCAGTTTCTCTTCTGAAACTCCAGCTCACTTAGCACATTTATGCCAAAAACAACAACAACAACAACAACA
AAAATGTATAAATTGCCTCATTTGTTTGAAGTGTAACACTCAGGTTTTCCATACAGCAGGAAACTCTGATAGAAGTATA
GATTAATAGGCAAGGCATTGCTCCATTCCCTAAAGGCGTAATAAGGCTATTCCACAAATATGTATTGAACTTCTACACA
GGTTTAAGAATTATGAGGAGGAGAGAAGATATTGTAATGAATCCCTACTATTCTGTTTATTTTTTATTTCTTTTTAACT
TTTTAAGTTCAGGGGTACATGTACAGATTTGTTACATAGGTAAA TTGTGTCATGGGGTTTGTAGTACAGATTATTTCA
TCACCCACATATTACACCTAATACCCATTAGTTGATTTTCCTGATCCTCTCACTCCTCCCACCCTCCACCTCTCTGATA
GGTCACAGTGTCTGTTGTTTCCCTCTATGTGTCCATGAGTTGTCATCATTTAGCTCCCACTTACAAGTGAGAACATGCA
GTTCCTGTGTTAGTTTGCTAAGGATATTGGCCTCCAGCTCCATCAGTGTTCCTGGAAAGGACACTATCTCATTCTTTTT
TATGGCTTCATAGTATTCCATGGTGTTTATGTACCACATTTGCTTTATCCTGTCTACTACTGTTGGGCATTTAGGTTGA
TTCTATGTCTTTGCTATTGTTAATGCTGCTGTAATGAACATACACATGCATGTGTCTTTATAATAGAATGATTTATATT
CCTTTGGGCATATACCCAGAAATGAGATTGCTGGGTTGAATGCTAGTTCTGTTTTTAGGTCTTTGAGGAATTGCCACAC
TGTCTTCCACAATGGTTGAACTAATTTACACTCCCATCAACAGTGTATAAGTGTTCCTCTGAGTACCTGTTATTCCTTT
GAAGAAAATACCTACACAACTAGATAATTAGAGAAGGAGAGAAAGAGAAAGAGAGAGAAGGATGGCACAATAATAAAGT
GTTTTTTGGAGGCAAGGATGATGTTTTATGAATTTTTGTATTCCCAGAAAATAACAGATAAGTGGTTATTAGTGAATGA
AGAAATGAATGAGTTAACTAATTGTAGCAGAAAAGGGAAAGATAAATATAAATAAAGGTCATCCATCTATTTAACAAAC
ATGTATTGCATGCCTAGGAATTGTACTTGGCTTGAAGACTTTAAAGTAGATTAAGACAGTCCCAGACTTCAAGGACCAG
CAACTGAGGGTGTTAAACAGAAAGGACAATGACATTACAACAAGCTGTGGGTTCACACATACCATTTCAAGACTAGAGA
AGAGAAGAAAATCAGAGATTCTTCCAGAAATGAAAATTCTTGAGCTGGGGCTTTGAGGATGAGGAGAAGTTAGTTAGTT
AGAAAGGAAAGATGAGTAAGGTTGGGGGTCAATAGTTCGAGCAAATATTGCAGTATGAAAGGTGTGAGAGAGCCTCAAA
CAGGTTACAGATTGTGGCACTATAGGTGATGGGGAAGGAGTGAGAGAGGTAACTACAGAGAAGTAACCTATTAGGAACT
GCTAAGAAATGTTAGATATTATGCTAAAAAGCTTGGAATATTTTTTAAAGCATGGGGGCATCACTTGATGATCTTTCTC
AAGGACAGGACTATTAATCTTAGGGTTTATTATATTCTTCAATTTTGACACAATTTATACTTCAATAATTCTCTGTAAG
AATTTTTTTCCTTTGTGGTCTTATTTATTTATTGAGATAGGGTCTTGCTCTGTCACCCAGGCTGGAGAGCAGTGGCAAT
CATGGCTCATTGCAGCCTTGACCTCCCAGGCTCAAACGATCCTCCTGCCTCAGCCTCCCAAGTAGCTGGGACTATAAGC
ACGCACCACTGTGCCTGGCTAATTTTTAAAAATTTTTGTAGAGACAAGGTCTCCCTATGTTTTCTTGGCTGGTCTCGAA
CTCCTGGTCTCAAGCAATCATCCCACCTCRGCCTCCCAAAGTGCTGGGATGACAGGTGGGAGTCACCACATCTGGCCTT
ATTTTTTTAACGTATTTTTTAAAAACCCAAGAACAGGCATTTTCTGCGTAATGTGCCTGCATTTTGGCTTTGTATTTAC
TAATGCTTGAATTATTGCCTTAGCTATACATAATCAACTGAAGAAAAGTATTTAACTTTTAGCTACAGTGATTTCTCAT
ATGGAAACTGTATACTTCTCAGGGATTGTGGAAATGTCCTTGGAAGTCTATGACCCCTCAAATTTGAGAAATGTTGATG
TGGAGGTAGAATTGGAGTAGGCAGGGGAAAGACAGGTACCAGGAAAACCAGTTCAGAGCCTACTACAATAATCATATGA
GAAACAAAGAGGGCTTGAACTAAGGGAGTTCAGATGAAAGAAGAATCTAATAGTTATTTATAGAGTAAAATAGACAGAA
CTTGGTGACTTCCAGGATTTTAGGCTTGAGAGAGGGAGGACTCAAGAATTGTACATGGGTTTCTGGTTTCAGTGATTAG
ATTTCTGGCATCTGCTGTCCATAAGATAGTAAAAACTGCAGATAGGGTAAATGCCAGTATTGGAAATATGAAGTTTGAG
GTGTCTGTGCACATCCAGATAGAAATTTATGGAATGTGGAAGAGCAATGTAAGCTGGGGTTTTCAGCACAATGGTAGGT
AGGTATTGTAGTTTTGGGGGTGAAGGTACTCACACAGGCAATGAGTAGACTAAAAAAASAAAAATATAGAGAAAGAAGA
ATCCAACAAAGAGATTGAGAAGTAGTGGCTGAGAAGTAGGCAGAAATTTAGGAGAGTGGTGTTCTCAACTCCAAGGTAG
GAGAGAATTCCAAGATTGGAATTGTTAGAAAAAATTTGATGGAGAAGGTATTCTTTGAACTGTGTGTGAATAGACAAAGA
GCTCTGACAGAGCAGAAAGGAGGAGGTATGGATTCTGGGTGAGGAAATGTTATAAGCAGTCCCACAAAGAGTGACATCA
GATTTATACAAGAAGCCAGAGCTTGACTGTAGTGGGCAGTACAGCATAGGGTGGAAAGCATAGACTCTGAAACCAACTC
CTTAGGTTCAAATCTCAGCTCTCCACTTTTAGCTATGTGACCCTTGGCAGGTTATGTAACCTTCTAAAGCCTCGATTTT
CTCCTGTGTAAAGTGGAGGCAGTGATAGTACATTGTTAATAGATTGTTTACTTTTTACTCTTCTGTATAGACGGACCCC
TTGCAAAAGTCAGGGTGATTTTATATATACAACATCGTTATCAGCTACCTCTGAATACTTGATTCTTTTCCTTCTACAA
CCCCAACCTCCATTTGAAAAGTTCTCATTATTCTTTTTCTTACCTATTCTAAAAGTATCACTCAGTCCCCACTTCCTCC
AGGGAGCTTTTCTGACGAGTATTCAGCTCTTACTTCTTAGACCTCCAGTAACATCTAATGTTTGTCAAGTACAATTAAG
CACTTGCTTTTACAAAACTAATTGTGGGAGATTATTTCTAATGGTTTCATGTTTTTTAATCTTCTATCCCCAAGAAAGA
TTGTAAACTTCTTAAAGTCAAGATACATCTCCAGGGTATCCGCACATTTTGCCGTGCCTGGGACACTCAGTTTATGCCC
ATTGTCCTGATATAGTTTATATGAATTCATAATTTATAGTGTCCACTTTTGACTCTCTCAAGAGGGTAGTTGTTTGCAT
GATAAATTCCATGAACAACCTGGATATAATAATACATACTTTTTGAAATTAGTAACAAATATTTATTGAGTGGCTATAG
CATATCTATTACAAAATAATAATAAGCAAGGGGGAGAAAACGAACTGTCAATAATTATGCCATTGAGAGATAATTTTTC
TGTCTCTGTGTGTGAGAGTGTGTATGTAGAGAGAGAGAAGGAGTTTTACTAACAACAATGAGATTATACTGAAGGTAATAT
TTTATAATCTGCTTTTAAAATTTCACAGTATATTGCATCATGAACACTTTTCTTACCATTAAATACAATTCTCTATATA

Fig. 6.326

ACATTTTAATGGCATTTCCTTACATGAATATACTACACTTAAGCAATTTTCTATTATTAAATATTTGAAGCTCTCCCCA
GATTTCACATTATAAGCACTATTGTGATGAATATCTTTGTGTAGAGTCTTTATAGCAAGGCTGGGTTGTTTTCTTACTA
TATATTTCTAGAATTAGAATTGTCAAACTAAAGAATTGCCCAATATTTTAAAGATTTATTTTTGCTATTATTGTCATAT
TGCCCTGCAGAAAGTTTATATATACTTCATCAGCAGTCTCTATTTCTACATTATTTCCGTTGCTATATTTTATCATTTT
AATTGTTCTCTTTATTTGATGAATCACATAGTATTTTGTTTTAATAAGAATTAATTTAGCTTCAAGAATATTAAAATCT
GTTTTGTGTGTCTAATGGCAATTATACATATTTGCTTTTTATTATTTTATTATTTATTCGTGGGCTGATTTGTTTTTTC
TTGTTGATTTTATTTTTATTTATTTTTTAGGAGACAGGTGTCTCACTTTGTTGCCCAGGCTGGTCTCAAACTCCTGGAC
TCAAGTGATCTGACTGCCTCTGCCTCTCGAAGTGCTGGGATTACAGGTGTGAGCCACCACCCCTGGCCTCTTATTGATT
TTAGAGTGTTCTTTAGAGATTAAGAATATTAACTTTTCATTTATGTTTGTTTTTTACACTTTTTTGCCATTTATTCATT
TCTATTTTTACTTTTACAGATACTCTATTTTAATAAATAGAAGTTTAAATAGTCCCTATGTAGCCTGTATGTTTATATT
GTTTATATAGTCTCTATATAAATATATTTTATAAATCCTTAGCAATTCTTTTCCAACACCAATATTTTCTTCTAGTATT
TAATCATTTTACATCATATATTTATATCTCTAATAATTATGGAATTTATTTTACTTTATTTCAGGGCTCTGATGTTCTT
TTCCTAGATTTTCTAAATTGTCAGAATCCTAGGTATTACATAATCTATTATTTCCTTATTGGCTTGAAATGCCACTTCT
ACTGTTTATGGTTAGTTCCTTTTTTAATCTTTACATCCTATTTCTAGACAAAAAGCCCCATGTTATAATTATTATGGAT
TTTAAGAAATACATTTTAATATCTGGGAGAACATATTCCCTCTTAATCTTATTTTTTAGAATTTCCTGGGTTATTCTCA
CATCGTTGTGCTAAATTATACAAACAATCTACTTGTCAAGTCCCCCCCAAAAAAACCCATTAAGATTTTGATTGAAATT
GCATTAAGTTGCTTATAAGCAGTTTATAAGTACTACAGAGCTCCTTATGATATCCCTGCCAACTACTTAAGAAACTCCT
AGTTCTTAAATTACAAATATTCCCAGTCAAGAAAGGATCACCAGACATTTGAAAAAAGACAAAAAACCAAACCAAACAA
AAAAACCAGTAGCCTAAACAAAAAGGAACTAATAAATAAACAGGACAAATTTATTTCCTGAGACAATTTATCTTCTGC
TTTCCAGAAGAAACAGAGACAATGAAAAGTGTGGGAAAAATTTGTCAATATTAAATTTTCAGAGATATTCAGGGGGAGA
ATATAACCATTAAGTATGATCTGATTTCCATAAATAGCAGAATACTGAATATATATGTATATATAAAGATTGGATAAAA
TGCAATTCAAGTAATATTCATTCTTGAATATTGAATTAAGCAAATATCTTAGAATATAGAGCAAAAAGCCAAGGATATA
AAATATGATGGAAAAGTAAAAAAGATATGAAGAATGTGGTAGAAGTGGAGGAATGGGAAAGGATGTGGGAAAATAACAG
AAAAAAAATCCTTGACCTGAAGAGTAATTCAAGTCCTCAGATTGAAAAGTTTCATCCAACACCGAACAAGGAAAAAAGG
ATACATATCTAGATGTGTATACACATGCTGATGAAAATTTTGGAATTCTAAGTATAAGAAATTAATCCTTCCAGAGAAC
AAAAAAAAAGGATCTTTCAAAGGTATCAAACTTCTCATCAGCAAGATTAGAAGTGAATGCAGACTAGGCAAGGTTTCAA
AGTTCTCAGGAAGAAGAACTAGAACCCAAAATTGATAGTCAAACTATCAAGTGTTAAGACAAACTAAAGATGTATTTAA
ACATGGAAGGACTCAAGTTTACAACTTTACCTCCTACAGATTCTTCCTAATTAAAAGGAAGTATTACTCGAAGATATAT
TCAAGCAAAACAAAGCAACGGGAATCCTATACAGAAAACCTAGGATACAAAGAGCATTGGAACCAACCCAGATGTTTAT
GAAAATAAATCCCAGTATGACAACTGTGTAGTAGTAGGCCTAGAAAGCAGGCAGCCTAAGTTAGAGTCATCAGAAGGTT
CCAGGAAAAATGCTTTCAAGAAGAAAGTAGACATCACATTTCGAATTGCATAATTAAGAGCCTTTTAACATTTTAGGGC
AAAAGTAACTGCATTTAACTCATAGATTAATCTAAGACTTGATATCTTTATAATATTGACTCTTCCCATGTAGGAAACT
AGATATATTCTTCAAGTTTTTAAAAATGTCCTTCAGTGATGTTTTGCAATAATATTTATACAAGAGTTTTACATTTTTC
GTTGTTTATTTATACATATTTGATATGTTTTATTACTATTATGAATAGGATCATTTATCTATTTTCTAACTGGTATATA
GAAAAAAACCTGTTGTGGATACATGCTTTATAATGTTTGACCTTTCTTATAAATCATAATGGTCTACCTTTTTTATACC
TTTCAGTTGATTCTCCTGAATTTTGAGTTACAGAATTTTTATCTTAAAATAGAATGATTTCCTTCTCTCTTAAAAATAT
TTGTACAGCATATTTGGTTTTCTTGTTTGGTTGCTTACGTTAGAATTTTCTGAGCAACATTCAGTAATAGTGGAGACAG
CTTCTTTTTGTTTCTGATTTCATTGTTAATTATAGATGTCGAAGAAAAGCTATTCATTACCATGAAAAGGAACTATTCT
ATTCTTATTGTACTGAGAGTGCTATTTTACTATCAACTCTTTAATAAGTGTGATATACTACTGTATTAGGCCATTCTCA
TGCTGCTGTGAAGAAATACCCTAGACTGGGTAATTTATAAAGAAAAGAGGTTTAATTGACTCACAGTTCTGCATGGCTG
GGGAGACCTCAGGAAACTTATAATCATGGCAGAATGCACCTCTTTACAGGGCAGCAGGAGAGAGTAAGCACCAGCAGGG
AAAATTCCAGAAGCTTATATAACCATCAGATCTTGTGAAACTCATTCATTATCATGAGAACAGCATGGGGGAAACTGCC
CTATGATTCAATTATCTTCACCCAGTCCCTCCCGCAACACATGGGGATTATGGGGATTACAATTCAAGATGAGATTTTG
GTTAGGGCATGGCCAAACCATATAATCTACATTAAGGACATTGTTAAGTGGCAGGATAAATGGTGTGGGCTCAACTTTA
TACTATAGAGGACCATTATAGCAATATCATAAAAGTAATACTTTGAGAGACTAAGCCAATAATAGGACAAATATAAATT
TGAGGAAAAGATATACAAAACCATTTAGTAATTCAAGCATCTAGTGATAATTGTATAACCATATGGACAAAGGTAGAGA
AAAATACCTATAGAAAGTTTGAACTTAAGAGATAGGTCAGGTAACAAACCCACTTTTTTTCTTTTTTTTTTTTACCTGA
TTACTTCCTGGTCATGAGGTTCAAAATATTTGATAGCAAAATGATTTAAAGTCCAAATTAATATTGAATTGAATATACA
CATTACAGCCAAAACCAGACCTATTTTTCTGTTGCTTATCATATATAATTATAGAAAGCATAACTGAACAACAGGAAGT
TATTACTTCTTAAATATCAGAAAACATTTGACTTTCTCTTCTGAAATAAGGAACGGCAGTAACCGAATTCTAGTTACTG
CTCTTAATAGTTTTGTAGTTCTCATAAAAATATTGCTTATATATTATTTGGCTCCCACACTATCCATTTTGATGGTTTTA
AATTTTTCAAATAAAAATAAATGAGTTTTCATACTATGGATGACTTGACATCAGTTAAAAGTGTAAATTCATACTTGAA
GATAGCAGGACTCTATGCTCTTTCCTCATTGTTCTGGTCAAATACATTTCCAATCATGATAATCAATAATGTGACTATT
AATTTTTACTTGAAGTTAATCTATTCATGTTTGATTAGAAGTGTCTAAAACATAAACTTGGGATGTCAATGAAGAACTT
TTTAAAATTCTCCTCCACAATGGCTGATAATCAGGCCATGATTATATATTTGAAGATTTTACCTAGTTAGTCATATTTGG
GGTAAGAATATATGCTATCTCCTTCATATTAATAGTTCAGATCTTTAATTATAACATGTTTCATGGTCTATAAGATTAA
ATTGAACATTAGGAAAGCTTAGCATTTCTCATTTGTGAGTCTTACATTCACACCTGTCAGGATTGGTACAGATTCAAGC
TTGTTTTTAATAAACTTCAAAGAAGATCAAAACTAGGGATCATCTGTTTCATGTCTTTGACGTGATAGAAGTTTGGGGC
CCCCGTTTTGCCCTGTAGCTTTTGCCTAAGGAGAAAGCCACCCTTTTCAGCTGATACTTGCTCCCACAGGTTTTTCACA
GTTTTTGAGTAGCGAGTGGCAAGAAGCAATATGACGATGTTGGTAGGTAGAGAGATACTTCTTCACCATCTGGTGAGCA

Fig. 6.327

TTCTGGAGAACAGAGACAAGTCCCACACTGTTAAAGGAGTGAAGTCATTTTGCAGCCAGTTTTAAGGATTGATTTAAGA
ACTCTAGGAGCAGGCCATTATGTAGTCATCCATTCAGCACGATTCTTCGTGGGACTGTTTACACTAGAAGGAACTGTAG
TGATCAATTTAGCGTTGAGGAAACTGAGGGCTACAGAGTGCCAGGGTCACGTTCATCACACTTATTTGTGTTTCAAAGC
AGAATCCACACTCCAAAATGTGCAACTACTGTCTTACTATGGAATTTACACTGACACATTCTGAGGTCATGCAGGAAAT
AGACCAGAGTAAAGCATTAGCAATTAGGTCAGTAGCTTGAGATAATGCAGGCTCTGAGGCAATCTTCACTTTCACTGAC
CACAGACTGGGATTGGGAACATGGGAAACGTGTGTGTGTACAGACACAGCAACCCTTTTCTATGTGTCATGTCTTCAGC
TGAGTTTTAAGTTGTACTAGTGGAAGCCATAGCCTATGTTGGCTCATAGGTCCTAGTGCCCTTTCCCCTTCCCTTGCCT
CTGCCCCTGCCCCTTTCCTTGCCTTGCCCCTGCCCCTGCCCATTCCCCTTCTCCTCTCCTCTCCTCTCCTCTCCTCTCC
TCTCCCCTCCTCTCCCCTCCTTTCCTTTCCTTTCCTTGACACTGGGTAGAGTGTAATGCAATCATAGCTTACTGCAGCC
TTGAACTTCCAGGGCTCAACCAGTCCTCCTGCCTCAGCCTCTGGGTAGCAAGGACAATAGGCACACACCATTATGCCCA
GCTTATTATTATTATTATTATTATTATTAATTTTGTAGAGATGGGTCCTGCTATGTTGCCCAGGCTGGTCTCAAACTCC
TGGCCTCAAGCAATTCTCTGGCCTCAGTCATGCAAAGTGTAGGGATTACAGGCATGAGCCATCTCTTCCAGCTCTAGTG
CTATCTCTTTATAGGAATCAAAAATTTGTTTTGGCTATTTCAAATTTGTAGAGTAAGAGGTCAATTAGAAAAGACTCA
GTTATGTTTTCAAAAATGCACTGTGTGCATATGTGTGTAGAAATGTATTAGAATGAAATAACATTTTTTTACAGTGGCT
ACCATTGGTTTGTGAAATTATGCATGCTTTTTCTTAATTTTCTCTAATTTTTCTCTATTTCCTAAGATTTCTACCATGA
GATTTTTCTCTTAATGTCTAGTTTTATTACATAGGTAATAGATAAATATATTCATGTCATAAAATATTTTTAAAATTCA
GAATATGAGAAAGTCCTTTTTCATGCTCCTTAGTCTTGCTGTCTTTCTTGAAAGTATCCACTTAGTGATGGATACAATA
TGGTGTATATCTGCCTTAATCCATTTTGTGCTGCTCTAACAGAATACTTGAGACTAGGTAATTTATCATGAGCTGAAAT
TTATTGGCTCACAGTTCTGGAGGCTGGGAAATCTAAAATCAAGGTGCTGGCATCTGTTAAGGGTCCTTTTGTTGCATCA
CCACATGGCAGAAAGCAAAAGGGAGAGAGATAGACAGATTGGGAGAGAGAGAGGAAAGGGGACCAAACGTCTCACTCTT
TTATAACAAACCTGCTCCAGTGATAACAGGATTAACCCTTACATCAGGGCAAAGCTCACATGACCTAACACCTCTTAGA
AGTCCCAACTCTTGCTGGATGTGGTGGCTCACACCTGTAATCTCAGCACTTTGGGAGGCTGAGGTGGGTGGATCACTTG
AGGTAAGGAGTTCGAGACCAACCTGCCTGAGCAACATGAAGAAACCCTATCAATACAAAAAAATACAACAAAATAGCTG
GGCATGGTGGCATGTGCCTGTAGTTCCAGCTACTCTGGAAGCTGAGGTGGGAGAATCACCTGAGCTTGGGAAGCTGAGG
CCACAGTGAGCTATGATCATGCCACTGCACTCTAACCTGGGTGTTGAAGTGAGACCCTGTCACCAAAAAAAAAAAAAAAA
AGAGTCCTACCTCTTAATACTGTTACAATGGCAATTAAACTTCAGCCTGAGTTTTGGATGGAACAAACATTCAAACCAT
AGCAGTATCTTTTCAGAATTTTTAACTGAATATTTATATATATGAACATTTAGAATTAGGGGTAATTTTTAAAAATCAA
AAGTGATATACTACAGATGTTATTYTGTGATTGATCTTTGCACTTACTATGTTTTGGAGATTATTTTATTTTAGTACGT
ATAAATCTATACCAGTTTTCTTAAATTGCAGCATAGTATGTATATCAAGTTTATCCTTTAACTATTTTCTTACTGATGG
CCTTTTTTAATATTGCAAACCATACTACACTAAACATTGTCGTGCATACTTCCTTGTGTATTACATTGGTTTTTAAATC
AATGAACTAGTTGTAAACATGGAGAGAAACAACAAGGAGGGAGATGGATATAAGAGAAGAAGAGATTAAAGGGGATGGA
ATCAGTTGTTTCTGGAGCACAGAATATTCACCAAATTTGACCAGATGCGCGGTTGCTCATTTAGGAAAGAGCAACTGCA
CTGGGATGAAGAGGTTTTTTAGGAAATCAGAGGTCTTCAGAGAAGTTTTGGTTAAAATCTGCAGTATACACTACCAAAA
TGGTTTTTGTCTTTGTTGTTCTTATGCAAGAAAGACTAGCTCTTTTTATCTAGAGCTGGAAGGTTGCTGTCTTGGAGTG
GGGGAGAAAGGAGACAAGTATCTGATGGGTGGGAATGGAAGGTGTGTATCCTTGCAGCAGACCTCCAGAGTAGCTGACT
GACTGATATGCATGGTAGTCCTAAGATGTGTTTGAGAAAAGAAAATATTAGGAGCTCTTGACAAATCTTGAAAATCAAT
ACAAAAATTAGCCAGGCGTGGTGGCGTGTGCCTGCAGTCCCAGCTACTCAGGGGGCTGATGCAGAGAATCCCTAGAACC
TGAGAGGCAGAGGTTGCAGCGAGATCGCACCACTGCACTCCAGTCTGGGCAACAGAGTGAGACTCTGTCTCAAAAAAAA
AAAAAAAAGAAGAAAAAAAAAATCAGTTGCCCATCCTGCAGATATACAGTATAGTGTAACTGCTTCAGCCGCTTGCAAA
TCTCTTTTACAATTCAAAACAAATTATGGAGAAATAAGAGTGAAATATTTTCCTGGAAAAAATAATGTGAAAAAATTGAAG
TTTTAAATATCATAGTTAAATTGAATGTACCTTAGGGACAACTCCTTTATTTAAAACTCCAATTCTCCAATAACACACC
TAATATTTGTTATTTTGTTGTTAAATATTTACTCTATGTAGACATTATGCTAAGAGTATAATGCCTTTTTAATATTCAG
AAGAGCACTCTAAAAGCTATTACAGCTTTACAGACAAGAAACTTGAGACCAGAGAGAGGTTAAGTAACTTGACCAATTG
TCATATAGCATTTAAGTGGCAGAGTTAGGATTTGAACCCAAGTTTTTATGTATTTAAAATTCTGGCTATTAACACCACA
CTGCAAAGAAACTTATTTAGTAGATAACAAGTTATATCCATATATTTTTAGATATCAATATATATGTTGTGGATCGGTA
GCTTGGGGCACATTACTGCTTTGAATTGTGGTATCTTTTATTAGATATTGAAATACTGGATTATTGATAAGACCATGTA
GCAGTGAGAAAAATAGTTTTTGCTTTGATTTGTGTCAGTTATACTATGTTGTTGGAGCTTTTGAAGTAGGGAGTGATCA
GGTAGAGACAGGCAGAAGAGATTAGTTTGTATGTGTTATCCTGAAATCTGAGTTATTTGACATTTTTAAGGCAAGGCAT
TGATTGAGTTTTATGAAGATAAATTGGCAAAGAAAAGTAATCCCATCTGCTCAATAACAATTCTTTGCTTTTAGCCAAG
AAAATTGATTTCAACTTGAGAGTAATAATCATATTTATCACACTTGTTAATTGCATGAACTGTATACAAATTGTCAGGC
TTATTAAGGTAGATATTTACGGTCACTGGGCGTTCCTCACATTCCACATTTTCATTGTTATGGCATTAACTATTTTTTC
TGTTTCTCTCTTTGTCACTGAAGACTTCACGTAGTATAATAGCCAGTATTTTCTGTGATTATATAGCAATATTCTCAAA
CCTAATTGTTCATACAAAGTACAAATCAGGGACTTTTTCTACTAGGTTCTGAAGTACTTGTTCTCTAGATTTAAACTCC
AGTGTTGTACTAATGGGAGTAAGTTTTTCTTTTATCTGCCAAGGAGCTCCTCTTACATGTAAAAAACTGTTGTTTTTCC
TCTTTGTAAATATCAGTGTAAAGTACACACTGTATAAAATGTAAATTACTGATGTGAGAGTGGCCATTTTATTCACATT
GTTCAATGCCAAAGTGGGCCAAAGGATTCTGGCTCATTAACTTTAAGGAAACTATAGTATTCTTTTGTCTCTTTAGCCT
TCCTTCTGGTTTATTCAAAGAATTCTCATCAGGTTGATCAAGAGTTGAAAAGTAAAGCACTGTTCTTAAAAACTGCTCT
CTAGAAAGATCTGCAATGGTTTTGAGGACTGCCAAGCAACAGGAGGTAGAAAAATGGATAACTAAATAACCTCATTTAC
AGAAAATATGTTAGGTTAAATTGCATAGGAAAAGATAGTATGGGTCTTTAAAAAAAATGGATATTTATAACAAAGAAAG
GATAAAATTAATAAGTAAGTTATAAGGAATATTTAGAAAAATAAAAACAGTATTCTAAAAGACAATACTTATATCTTTC

Fig. 6.328

TAATGTAAATCTTAGAAAATGGTGAGAATTTCTTGTATGCTTTATATTTATAAGAAGTAATAATAGCTTTTGAAATAAT
TCCATATTATAAGAAGTCTTTTCTTCATATGTACCCAATTCCAAATAAGTGGATGCTGGAAGAAAATCTGTAATTTATT
TTATTTAAAAGAAATGCAGTATATTAATAAATACCTATTTTTTGGATAATAAAATAAGCAACATTTTCCAGAATGAGGT
TTTTTTTTGCAACAAATGTGCATACCAATGATTTGAAGTATTTAAAAGAAACTTTTCTACTTGAAAGGAACCAAGATGA
CTAAGTACTAATTTTGCGGAATCTCCAATTGGGAGGATATCTACTGCTCAGAAAAGCAAACTAAAACAAGACAAGAAAT
TAAAATTGACAAAGGAGAAGTTCCATATAATCTAATTCAAAATCAAATGAGTTTTTCAAAGAAATAAGTTTCATCATGT
AATCTAAGCCAAAATGAGCTGAAAATTTACACACAATTTCTTTTCTTTTTCTTTTTCTCTATTTCCCATTAGGTGGTTT
CCATCCATGGAAACTAGTTACATGGCATTCCTACCATCCCATGCCCATGGTAGACATAATTAAGAAATTGTGTGTGTGT
GTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTTTTGTAAGCTTTTTACTCCTTCTCAACAAAGCATTTCAAGG
AGCCAACAGCAAATTAGAATTGAAACTCCATTATGTCTCTCAGGTCTTCTGATCAGCTCTTATTATACTTACTCTTAGT
AAAATAATCTCTATTAATAGTGAGAAGTAAGGAACTATATGATATAATAAAAAGTGCTCTAAAGGAAGTCAGAACATTG
TGTGGAAGTCCTGGTTCCACCATTAATGGTAAACTCTTTGAGGACTTCCAATTTCTCCAGGACTGGTTTTCAATCTGTA
TAATTAAGGGGTTTAGGCTAGACTCTCTTTTTATTTTTTGAAACAGTGTCTCACTCTGTCACCCAGGCTGGAATGAAGT
GGTACGATCTTGGCTCACTACAACCTCTGCCTCCCTAGGTTGAAGCAATCCTTCCACCTCAGCCACCTAAGTAGCTGGG
ATTACAGGCATGCACCACCACGCCTAGTTATGTTTTCGTATTTTAGTAGAGATGAGGTTTCACCATGTTGGCCAGGCTG
GTCTGGAACTCCTGGCCTCAAGCAATCTGCCTGCCTCGGCCTCCCAAAGTGCTAGGATTACAGGTGTGAGCCACCACAC
CTGGCCTAGACGCTTTCTAAAATTCTTTTCAGTTTCAACCTTCTATGGCTTTTGGATTCTTTTATTTCTTATACTTTCA
TATTACTGAATCTCATAACTCACTTTTTCCTCCATTTTATATTTTCAACTTTTCTAGTCTAGGGCTCTGCACAAGTTAT
TACTCTGCCCTTTTATTACTACTCCAAGGTAATTCATGTTATATGTAGATGTATATTAGCCATGACAATAAATCTACAT
ACTGTATTATCATCTTTCCAGAATTTTTCAAAACAGAAAGTCTTTCTTGACTAATCATTTATTCCCCATATAATAGTAT
GAAGTTATTAACAAACGTTCCTTGAATTATGTGTGACAGAATTTGCTGGGAGCTTGAATCAGTATATTTGTTTAGGCTG
CATATAACAGAAGGCTTCATTTAAAATAGCTTAAATAATAAGAGATTTATTGAATTATATAATAAGAAGGTAGTGATAG
AATGATTCTAGTAGTACAAACATGCATCAAGAATCCAGATTCTTTCCTTCTTTCTAGTCACCCATCCTCAGCACAGTAG
TTTTTGATCTCAGTTTTATCCTCTTATGGTCTCAAGATGACTACAGCAGCTCTAAGTATATTTATACAACTTCCTTTTC
TTCTGTCACTTTTTAAGAAAGATAAAAACTTTACCAGAAGTTCCTTAACAGATTTCTTTCTCAGATCTGTATTAGAAAC
AAATTCATCATATGCTTATATCTAAGCCATTCATTGGCAAGAGAAATGCTATGAAATTGGCTGGGAAGTAATCATGGTT
CATCCTGGTCCTGGGAGGGGCCTGATCTCCCTTGAAGCACCAACCGCCTGACACCTGAACAAATTCTAGTGGCTGCTGG
GTAGGGAACAACAGTGTCTTTACAAGTTGGTGCATTATAAATACATTTCCATAATTTGAATCAAGCCTACCATCTCCTC
CTCATCTCCAACCACCCGCCCCCCCCRCCCCCCACTTTATTTTCTGTATCTTCAGCAACTTCCAGAAACTTCTCATTCT
TCCTTAAATACACATTTTTGTACCTGCCATATTTTGCATGCCCTCTTTTATCAGCCTGGAATGCACTTTGTCACCTTTG
CAGCCTGGTAAAACCATCATTGTGCTCATATTTCAAGAACCACCTCAAATGTCTGCTCTTTAGATCTGAACCCTTCCTG
AATTCCCCAGCTTAGCAGGTCAAGTGAGTTGTTCTCAGCTTTGTACTTCTGCTATAGATCAGCCCTCATCATTTTATAA
CTATGTATTGACCCATTTACTCCTGAGAATCCTGTAAGGATGGGACTCAGTTCCTTGGTATTTTGTTCTCAGAGAGATG
ATGCTTCATACTTACCAACTGTTCAATAAAGTTTGTTGAATTAATATAGTTAAAAGCAGATACCTTTCTGTTATAAGTT
CAAAGCCTAGTGATTGAAGATTTTTCTTTACATTATTTAAATGTATTTATTTTGGTAAAATATTTAGAGCAAGTTTCAT
TCCATCTGTTCCATCTAAGCGATTCATGACCTGCATACATTCTAAATGACAGGAACCACAAGCAACTCAGTCAGCAGGC
TTCAGAATCGGTCATCCTAAAAGATATTGCAGGTCAATGGCTAATACACTAACAAAGAAAGAGCTTATGCAAATAAGTA
AGGAAAATACTGTTTCAATGTTAAATCATTAAAGACAAATTCAGACTACTCACAAAGAAGATCTATAAATGCCAAGTTA
GAATAGTAAAACAGAAAACAAAAAAACAACATGAAGACCTCTGATTACATCTATAGTAATTAACATATCCATTTAACTC
CTCTGCCTTCAGAAAACCATCAATGGATGTTTATAGGYATAAATGACAAGGACAAAGAAAGTGGGAAGGGAGATAACAG
CAACAAAATTTTGGAAGCTGAAAAACMAGTATACAAGGGGTATACTTCCTGATGAATGTAAAACCGTCCCTAGACAAGG
GGGGCCTARGCAGGTTGAAGACTGAGTGCCATTCTGAAAACAGAGGGATTAAATAAACACTTATATATTTGTGTTCATG
ATAACACAAGGCTTTTTAAATTCTGTTTACCACTGTGTCTCCGGTGGCTAGAATAGAGGCTGCCAAATATAGATGCTCA
AATATTTGTTGAATGAATTCCGAAGRTTGAAAGTCCCAACCTTCTTCCCCTAGTCAGCTTCCAACTATGCTTAAGCCTT
CTGGACAGGAGATTGATATAACCTTTGGAGAATTCACCAACCCAAGAGAAAAAACCCAAAGATAATGGTGCAAGGTATT
TCTGAATGAAACTGTTCAGTTGGATCATCAAAAAGTGGATGTAGTTGACAAATCTTACCTATGCAAACAGAGCTTCCAA
TCTGATTTTTAGTACTCTAGCCTTAAATATGAGTAGACAGATAAGATTTATCAAATACTTAGAAAAAGTAAGTGAAAGA
AACCAAAACAAATGGAAAAAGACCAACTTCAAAGTACAGATGTTGGCCGGGCGCGGTGGCTCACGCCTGTAATCCCAAC
ACTTCGGGAGGCCAAGGCGGGGGGATTACCTTAGGTCAGGAGTTCGAGACCAGCCTGGCCAATATGGTGAAACCCCGTC
TCTACTAAAAATATAAAAAAATTAGCTGGGCGTGGTAGTAGGCAACTGTAATCCCAGCTACTCAGGAGGCTGAGGCAGG
AGAATTGCTTGAACCCAGGAGATGGAGGTTGCAGTGAGCCAACATGGTCCCACTGCACTCCAGCCTGGGTGACAGAGTG
AGACTCCATCTCAAAAAAAAAAAAAAAAAAAAAAAAGAAGAGAAATAAAAAAGTACAGATGTTGCAGGAAGAAGGTATCAT
CAGAGAGAGGAGAAGAAATACACTTGATATTGTATTCATAAATATTAACATTGCTTCCACGAAACAAAAGCAGATGCTA
TGGAAAAAAAAAAAAAACAACTCAGAGAATAGGAAAAGAGCTCTTGGAAAGTAAAAACATGATAGAATAAGTTAAAAAC
TCAATAGAAGGGTTGAAAGGTAAATTGAGGACATCTCTATGGAAATGGAGCAAAAATACAAAAAGGTAGAAAATACAGA
AGAAAAAGTGGGAAATCAGAGGACCAGTTCAGGAAATCTAACATCTAAAATCAGAAATTCTAGAAAAAAGAGAAAACTG
CAGGAGGACAAAATTGAAGAAAAATTTCCAGAACTCATTAATTGGAGCATTTAGCACAATATAAAGTATTAAAAAAGAG
ACTTGTGACTTGTTCTAAGGATCATTATCGTATCGTATAGAAGGATCAAAAATCAAAAGGGCATCAGACTTCTGAAGAT
TCGTTTTGAAACCTAGAAAAGAATGAAGTGATGCCTTTTAAATTCCGAAGGAAAGTGATTCTCAACCAAGAATTCTATA
CTCAACCAAACTATTGATCAAGAGTGAGCATGGAATAAAGATTATTTCTGAGGTGCGAGCCTTTAAAAAATGTATCTCT

Fig. 6.329

GATGCATACTGACTCAGGAAGCTACTGGAAAACGTGCTCACCAAAACAAGGGAATAAACTCTAAAAACATTACCCTTGG
GATAATAAGGAAAGAACATCCCAAAGTGACAGCTTAGCAAGAGACATGGAGAATAACCAATCCAGGTCAAAGAGGCCTC
TGGATGAGATTTCTTCAAGAAGATGAATTTAATAAAATTCTTGATGTGTTTGAGCCATACTTAGATTTTTGTAATATGG
GAAAAGTTTGGGATTGAATTAGTGATAAGTATATATGGACATCTAAGGGAACAAAGAAACTAACAAAAGACAAGAATTT
TCAAGAAGGAAAACAAAGAAAAAAAGGTAATCAGGGTATGTTACATAGTTTAGCTGCTTATAGTTTTTCTTTGGTTCTG
CTCATGGAAACACAATGACTATCAATCTAAGTAAGACTATAATATATTAGAAGGATGGGTGATGAGAAGTGTGAAGTGT
TGCAAAGGTAAATCCTTATCTTCCGCTATGAAGTATCAATAAGCAATGCCCAAAAAAATGAACTATTAAGAAGTAACTG
TAAAGTTATATCATTTAGAGATAGAGTGGAGTATAGCAAATGAATCAGCTAAAATATTTGAAAATGGGTACCCTCTGGG
GAGTGGAAGATACATGTATGTATTGTGGGTGGGGGATGCACTGCAGGAGATCTCTTTTTTTAATCCTTGTGGTACTACT
TAGTTCTCTAAACTATTTGCATCTATAACTTTGCTAAAAATAACATTTAAATTTAAAAATTGATCACTCTTGTAATAAG
TTCAAATTGAAACAAGGAGATAACATAGTTGCTAAGTTTTATTTTTGGACATATTTATAACATTGTATATGTGTTAGTG
AGAATACCATGTAACATCACTCTCAAGCAGTACTTCTAAAAGTAGAAATTGCTGTAATATTTCTCAAAAACTATCTGGC
AATACACATTAAGAGGTATAAAAATGTTTATTCCTTCTGACTTAGTACTTCTGCTTCAGAAATCTCTTACAGTGATCTA
CCTTCTAGAAAGACTGGAGATAAATACATCAAAATGTTCACAGTAGTTGTCTCTGAGTGGTAGAATTATGGGTAAAAAA
AAGATGGCTTGTTTCCATTTTTCTTTTGCACCCCTCTGCATTTTTTCCAAATAATCTATAATGAAGACAGGCTCCTTTT
ATATTTGGAAATAATTTCCAAATATAAACATTTTAATTTTATAACATTTTAAATTTTTCAAAACACTGGTCCTCATAAC
AAGAAAAGTTATTTGTTGCAACCACAGTAGACCAGGTTAATGGTGCCAAGAGTGGAATGCGGATAAAGGCTGACAAGGC
CATCTGGAACTGTGAGTCATTCAGAGCATCACAGAAGAGAGATTTTCTGCAAGTACTAGCTGTGTTGACTGTGACTGCT
GTTTTCCTGGTTGCTCAGGAATCACCCAGGGAAGGAGAGGGCTTCCCCACGGGATTAGGGAAAAAAAAAAAAAAGCTTC
TTGTTCCATAAGAGAGTCTACAGATAGGATGAGTAATAAGGGATAGATTTTACTAAGGTAGAACAAAATGTTAGGACGC
TGGTACGAGCACCACTGAAATATCCCTATATCAAGTTTTAGTCTTTTCATTGCATCTTCTGAACCTGCTGGAGATGCTT
TCACATGGAACGTATTTGCTATAAACTTTTCTTTATCTTTTGTTCAATGCTGTGAAGTTTGCTAATCTTAATGAACCAA
GTCTCTTCATGCTGACAACTCATTGTAAAAGAGGTAAAACTGTGTTTCCATGGTATGGGGAATGGAGAGGTATAAGGAG
GAAGATGGATTTAAATTGATTTTTGGAATGCTTGCTTTATTTTATCAGTTAAAGAAAAGGTCTAACGGATTATTTAGAT
AACTTTAGGCTCCAACTGCACTGATCTGTTTGTCATTCCTTTAAGAAACCATTTTGATTCTGACTACTTGAATTTGCAC
ATTTTGTTCCTTCTCTCTGGAATACCCTAACAAATTCTTTCTGCCTGATAAACTACTTACTCTTCCAGGTCAAGTTGAA
ATGTTCCCTTCAGTGTGAAAACTTTCATGACTCAAAAAATAACAATTATAATAATTACAATTTGATGAGCTACCTGGCT
GTTTACCTAATTCTCACACCATTAGATGAGCGAGGTAGTTTTAGGCTAACTTTAAAAAGGAGGAAACTGAGACTTACAA
GACTTGGGTATGTGGCCCAAGAGTACATAGCTAGATTTGAAACCCAAGTCCAAACCCAGGACTTCCTGCTTAAAGCCCC
TTCTTTTTCAAAAACTACATTACCTATTGATTATTTTGCTTTACATGTGCTTACATGTTGATCTTCCTCAGTGGACTGC
CTTCATTCCTTAATAGGAAATAAATTGTCTTTTTTGGAGGTGTTACATTTTTGCATATAACATTAATAAGATTAAAATT
TTCATTTGTTGTTGACATTCTTTGCTTGACTCTACACTCCACGGGATAGGATCCTTGGGCATAGAAACCACGAATGCTT
TGCTCATCACTGAATCCAGCATCTGTCAGTGTCTGCCATATAGGAATTGCTCAATATACATTTTTGAGTAAATAACTGA
ACTAACAAATGAGTGAACAAAAGAACAAATGAATAAAAAAACCTCAGATCTAGCCCCTAACAAAAAATACTTAAAAAAA
GTTTTAGTGTCTCAATTGTCTGTATAGACAATGATTTCACAAGTTCACGTGAAATACACTACCAATATCAACAATCATG
TTAAATCAAATGAAATCTATATCCTCTGGGAATGCTTGTGGTATGGCTTAGGGACAAGCTTTACTTATGAACAATGATA
CTGAGACTTCACAATAGTCAGCTGTGCAGATGTCAGACTTTGCATTTCACACATGCTTTTAACCTAGAGCTCAAATAGG
CAGTTTTAAGCCCTGGACCTCAAGTCAATGTGGTTCATGTTTTGTCACTTCAAGATCTACAATTGAACTTCATTACGAT
AGTCTTAGATGGTTTTTCATAAATTTTGAGTCATGAAAAACTGACAACATATGAGTCTCCAAGTACCTTTTAATATATG
CAATATTTTACCTACTTAATKAATACATGTGTTTATTTGATAACTAAAAAGTTTATAAAGTCTAGAAATAAAGAAAAGT
CCATGTCCTTTTTCTTTTTTGTTTTCTTTTAAATGAAAACTCATGAGAAATAAGAGGGCAGAATGCATTAAATTATTTC
TTCTGTAACAGCACAATTCTATATCAGATTTTAAATACAAAGAACATGCAAAGGGATAACAGCATTGACTTCAGTTCT
AATATAAATAAGGCAGGAAATTGGGTGAAATCAGTTTTTCCTCTAATCTTACATGGAAAAAAATTTGTCATTTGGCAAA
CCCATATGAATCCGATCTGTTTGGTTTATTCATCCATGCAGTGACATTCAGACTCCAAAAACTGTATCAGAAACCTAGT
CAATATTTAAATGCCATCATATAGATTAGAAATGGAATAAGGTATAGGTAACTTACTGCATTTCAAAAAAAGTACTAAT
TGAAACATATTGTCAAACATATATCTTTTTCTCTCTTTAGAAACCTATGGCTATTTTCTGTCTTTCAGCKCACGCTACA
GAAAGGCCTATTTTTCCTTCTGTCTTAGTCCATTCAAGCTGCTGTAACAAAATATCATAGCCAGGCACAGTGGCTCATG
CCTGTAATCCCAGCACTTTGGGAGGCCGAGGTGGGCAGATCACTTGAAGTCAGGAGTTTCAGACCAGCCTGGGCAACAT
GATGAAACCTAATCTCTACTAAAAATACAAAAAAATCAGCCAAATGTGGTCACAAGCACCTGTAATCCCAGCAACTCAG
GAGGCTAAGGCACTAGAATCACTTGCACCTGGGAAGGAGAGGGTGCAGTGATCTGAGATCATGGCACTGAAATCCAGCC
CGAGTGACAGAGCAAAACTCTCTCTCTAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATCACG
AGCTGGGTGGCTTATAAACAACATAAATTTATTTCTCACAGTTCTGGAGACTAGAATGTCCAAGGTCAAGGCACGGTAG
ACTTGGTATTTTGTGAGGGCTCATTTCCTGGGTCATAGATACGTGCCTCTGGCTTTGTCCTCACATGGTGGAAGGGGCA
AGGCAGCTCTCTTGGGCCTCCTTTATAAGCCACTAATCCCCTTATAAGGGCTGTGCTCTCATGACCTAATTATCTCCCA
AAGGCCCCACCTCCTAATACCATCACATTGGTGATGAGGTTTCATCGCATATGAATGTGGGGAGGGACACAAACATTCA
GACTATAGTATCTGCTTTTTGCCACAGAATGAAGAATAAACCACGTCTTATAAATAAAAATCTTTCCATGGTCCCCCAC
CACATAAGGACATGACCAACTTCCTTTGCTAGTCATCCATCTCTCATAATCCTCTCCAGCCCATCTCTGCAGCCTCATC
TCCACCCACACATGCATTCTGCTGTAACAAATGGTGGGCAGGCTTCCAAATGTACTGTGTTCCCATGAAGTTGCACCTT
TGCTGATGTTATTCTCTTTGCCTGGGTCCCCTCCCCATCTATTCACTCCTTTCTGCACTTCACCCTTGCTCTTCTTGTG
CCCTAATAGCTCCTCCTTTTGTGACACATCAAAAATTGCCCACTGTAGGAAGCCCCTCCAAGACTAAGAGTGCCTCTCT

Fig. 6.330

CTGTGTTCCTGCATGTGCTTTTGGAGCCCTTATCACACAGTTGCTCTAGAATTGTTAGCTTGACCACACTGTGAGTTTT
CTTAAGGGCAGGGACTTATTCCTCTTTGCATATCTGGAATCTTACCCAGTGTTTAGTACATACTACATGTTCAATAAAT
ATTTGTTCAATGAATCAATGAATTGATAGGTTTTCTTTTAGTAGAAGGAATAAGGTACATTTTTTTAGAACAGCATCC
GAAAAGCAAGCAGGAAAAATTGGGACATCTTTGCTTAAGGTAAAAATGCTTTTATGGGGACCACCTTTGAAACTCCATC
TACTTGGATCCTTTTAGTCTTCTTTATGAGATAGGAATATTAATTCTTAGATCCAATTAAAGAAGGTCTAGTTACCAAG
GAACAAAACAAATTGGTATAGAATGGACTTTCTTATAAGAGAGTCCCAAATCATAGATCATAAGGACAATCTTATGTTG
AAATGTCTCAATAACTTCCAAATGCCGATGTGAATGATATCATCAAACAGTGTGAGTCAAAGGAAGAAATGGGATTCCT
AAGTTTTCATTGTACTCCTTGACTATTTTATTGGTGTACAGTCTCTTGACAATTATTTTCTCATCTTCTTTCCCAAGGA
AACTTTAGATTTAATATGTTTATTCTGCAAGATGTTTGGAGACAGGTATACACCCTAAAACCACCATTACAATCAATGC
CATAAACTTATTCATTGCCTCCAAAAGTTTCCTCCCATCTTTTTGGGTTTTTTTGTTTTGTTTTCCTTTCATGGTAAGG
ACACTTAATATAACAGCTACCCTTTTACCAAATTTCTAAGTATACAATATAGTATTGTTGATTGTATACTTATGTTATA
CAGCAGCTTTCCAGAACTTATTTTGCAAGACTAAAACTTTGTAACCCTTGACCACATCTACCAATTCCCATCTTCCCCC
AGCCTCTGGCAACTACCATTCTACTTTCTGCTTCCATCAGTTTGACTATTTTGGATTATACATGTAAGTGAGATCATGC
AGTATTTGTCCTTCTGTGTCTGGTTTATTCCACTTAGCATGATGTCCTCCAGTTCCATCCAACTTGTTGTAAATGACAG
GATTTCCTTCCTTTTTTAGGGCTGAATAATATTTCATTGTATATGTGTGTGTGTGTGTGTGTGTGTGTGTAAATGACAG
TGTGTGTGTGTGTGTGTGTGTATATATATATCACATTTCCTTTGTCCATTCATCTGTTGATGGACATTTAGGTTGCCTC
TGTATCTTAGCTATTACAAATATGCTGCAGTGAAAATATCTCTTTAAGATCCAGATTTCAGTTCTTTTGGATATATACC
AAGAAGTGGGACTGCTGGATCAAGTTACTTCCTGTTTCGAAAGTAGGGCACCCCTCTGGACATTTCTACAACTGAAGTGA
TTGATTCTTACTTTTGGAAGTCAGGCTATTTGTTGGAATGGTGGGGAAAAAAGCTAGAGCTTAAAAATAAATCTAAAGT
TGGAGAGGGGATTATTACTGATGGATGCATTAATTCAAGGGTTACTGATACTCTAAATACATTTTTAAAAGTTGTTTGA
TTAACAAGTCAAAACAGATGGTTTAATGACATTTTAGAGAGGTTTAATAGAGATCCAACTGAATTAACAAATCACCATG
GTGTGCAGAATATTGAAAATTCACCACTAGTAGATTTATGGCATATTTCTGGGTATTTCATTCCCATTTGGTTTATTAT
GATAAATCACTGGGAAACGGGTAGCCTGTAGGACATGACAGCAAACCACACTTTGGCAGGACCAGCATCAGGGCTGCGT
GCTTTTTTAGGAGGCTATGTAGTCTAGCTAGCACAGAGTGACCCAGTGAGAGCTTGGTTGGCTAGGACTTTCTGGTGGT
AGCCCACAGAGCTCACCTGAAAGAGTACCAAGGATGAAAATATCATCTTGGCTAATTGGTCTGCTAGTTGATTTAAAAA
ATAAACAATAAAAAAAATTTCCAGTGTATTTTAGCAAAGTTTAATATTTTGAAGGGGGCAGAAATGTAGCATATTTTGG
GATCTTAAATCTGAATTTGTGTCTTTTTCCAGACTTTGTCAGTGTCTTTGTCTCTCTCTCCCTCTGCCCCCTCCATGTC
TCCCTCCTTCCCTCCCTCCTTCTCTCTTTCCTTTCCTGGTAAGTATACTAGAAAAAAGTATATTTTTTTCTCATTTTTT
TTAACTTAATAACAACAGCAACAATGACAACAGTCAAACTCTTGAATTCTGGTCACAATCCAGATCAATAATTTTTTCC
TTGTAGTTACCTTGGAATTAGGTTCTTAGCCCCTCACTGCTCTCTGTATATTTCTGTACAATATTCATCAGTTTAAATA
AGTACTTCAATTTCATACCAAAGTGCCAAGACTATCCTATTTTCACTCATCTTTAACTTTCTTCTTTTTCATTTCCCAC
ACCCCTGCCATTGCCAAACAAAACTGATTATCTCTGTTTTTATCTTTCTTTTAGACTTTTTAAGGCAATAAAAAATTGG
CTTGCTCAGAAGGCTGATACACTGAGTGTTAGAATAACCCAAAGGTTAGAATGCTTTGGTCAACTTATGGGTATTTTTG
ATCACGTATATCCATTTTTAAACCTGCCATTCATGATGGATCACTGACCCTGGCCCTGGCCCTGACCCATCTCAAAAAG
TTACTAGCATGATTACTGATTAACACTTAGACTGTTGGCTTGAAGTTTAGTAGCCTGAAGGAAAATTTCCAGAGGCATT
ATAATAAGGAAGTTTAATTAAGAGTTAATGTTGACTCAGGAATATTATGTATAGCATTGATCCACAGTGTTGCTAATGA
ATTCATTATGCTGCAAATGCAAGTGATTTGTTAGTACATTGGCCAATAAAAGTGAAATCTGTCTCAACAAGAATGTTGA
AAGAAAGAAGGCAGTGAAACTTTCATCTCCACTGGGAGTGAACTAACTTGCCAAATCTGGGTCATCAATCATAGTAAAA
TGTTCAAAACAAATAATGCATCTTTCATGGTTCACTGTATTCATCAGCACTTTTGAAGTCACCAGTCTAGAGTAGTCGC
CTTTGGCCAAGTTTTCAGTAGCCTGTGGTTTAGGCAATAAGCCTCAACTGTCTTTCTCGAGGATATGTTCCCAGGTGGT
TGTACTCCATGGGCCATTTTCAATCAAATCTGAAAGGACAAAAGGGCAGTTCTGTTTATATGAAATGACATCATATTAT
AACCTCAAAATTGTTGTCTTAAAAGTCAAATCATTATCTAAAAGGTCTCTTAGAATTACTTAGAGCTTGAATGCAAAAG
ACTGAATTTCCCACTCACGTACTTCGCCAACACTCATTACATAGGCAAAAAAGTATAGTAAGTGTCACTTATGTGAGCC
TATGTATGTATGTAGTGTTATAGGGGGTGGGGGTGGCAGGAAAGACAGCTCAAATATGAAATAATTGAATTATTCATTG
CCACTGTTCTGATTGCCTTTAAAAAAAGTTTTATCTGGAAGTTATTTCAGACACACTGGAAAGCTTCATGGGTAGTGCA
AAAAAAAAAAAAAAACCACATGCATTCACTCATTGTAAACATTCCACCTCATTTGCAGTATCACTCTATGTGCACATAC
ACACAAATATACATACACACACATTGTCTTTTTTTCTCTGAACCACCTGAGAGAAAACTGCACACATCATAGCCCTCTA
TCCCTAAACTCCTCGATGTATTCCTCCCAAGAACAAGGACACTTTTCTGTATAACTATAGTCTCAAACATCTGATTGCC
TTTGAATTTTATAGCATGACTTATTTATACCTTTTTACTTCGAGTTCTAACTCAGATACTGAGCTATAGAGGAACAGCT
CAACTATTAGTTGAGGGATAGCTCAGATGTCTGATGGAAAAAAGTCACATCAGTAACATTTTGAATTCTGCAAATATAC
ACAATATGCCAATGTATGGGAGATAACTAAATACTGGTTTAGAGAAAATAGATGAGTTAATACAAATAGAGATTCCCC
TTAATTAATAGATCTTATATGTTTGGTTATATGTCTTATCCATGCTATTATAGCTAGCTAGCATTCATTAGGACAGCCA
GAGAATCTTGTCTTTCTGTATTTTTATACTGTTTTTCTTCTTCTGATCAGCCGATTCCAGGTTTTGAAAGAATGAAGTA
GTTCCTACTTAGATAATGCTATTGCCTTGCTCCTTAACAGTAAGCAGTGGAGAAGCAGAGTGGACGCTGGTGATGCTGC
CTTTAGTCCTGGAGGGAGTGTCAACCAGTGGGTAATCATTCTGACCCTGCAACACAACCATCCCTTCACTATTTCAGTG
AAGGTCTCTACTTCGGTGGTAGGTCTCTACTCAACATGGTACTTATAGCCGTTTTATACTTGCTATCTTAAAAAAATAT
GCAGGCTTTCACTGCTGTGAACAGATAATTGATATTTATGTTTCATAATCTGTGAAGATAGCTAACACATTTCTGACAG
TTGCAATTTTTTTTCCCAAAACGAGTTTGAGCATGCCTATCCCTCTCTACCCAAGTATATTTAACAGCATTTCTATCTA
TTGGGGAATCTGAGTGAGGATGACAACGTGTCAGGGATTAGAATGGACAGGAAGAGTCTCTGTAAGAGGAGGGTGTGAT
GCTGGAGCAATTTATGAAAATTGGGTCCCCTGGTAACTGTAGTGSATGTTATACAGACAGTCCTGCAGAGTCATCCACG

Fig. 6.33

AGGCTGACTCACTGACAATGTACACATAGAGGTGGGCCTCGAGTGTGTGCAAATAACAAGTTTACTACTGCAGGCAAAC
TCTTCGTTTATTCATTTGACAGATTTATATTGAGGGGCACTGTTCTAGGAGCTGGGGATTTGGTAATAAATAAGATAGT
CATGGTCCGTAACCTCATAGAGCTTACACATAAACTGTTTTGCTTTAAAATATTGTACATTCAGAGGTGTTTGTGCTCC
GACCATATGACTGCAATATGTCATTTGATAAACCTTTCAGGCATGACTTGGACCCACCCAGAACTTAGCTTTAAAGCTA
TCAGATTGACAGGAGGAGAGAACACTGGCTTTAGATGACAAATCATGGAAATAATTATGAAAAGACCATCCAGTTTTTA
ATGACTTTACAAGAATAGTGTTCTTGTGAGACTATTGAATAAGAAGAAATATATGAACATTTGTATCATTCAACTGTCT
AACTGATACCAACACCAATAAATATATGAACATCCTTATTATTCAAGTGTCTAATGAGTGAGGGACAGTGCCTGTAGGA
AGGAGAGCCTCCCAACAATGGAAGCAGTGTTATTCTTCATGGTAGGGAGACCATTTTTTGGTTCCTCACAATGACTTCC
AGGCTGGAATGATTTCCAAGTAGGGCAGGGAAGACAAATATCTGAAGCCTAAGGGAAGCTCCAGGGTGATTCTTGTAGT
TTTGTTTGGCAGACTTTCTAAAAAGCATTGTCAGATAGTTTTGGAGCAAGCAGTTTAGCCATCTACTACCACACAATAT
ATTCAAATCAGAGTAAGCTGGAAGAAAGTCATCCAACATCCAAGTCTCAGCCTGGCCTATGTGAACATACTTCTTCTTA
AGACTAAGCTGTAGGGGTACTATGCTTATTACCTCGGTGTGAAATAATCTGTACACCAGCACCCCATGACATGCAATTT
ACCTATATGACTAACCTGCACATATACCCCTGAACGTAAAATTTAAAAAATTTTTATAGATATGTTAAATTTGAGATGT
TTATTGAACATCAAAGCAAAAATGGTGAATGAACAGATATATGACACAAAAAAGACTAAGGTATAATCCTATATCATGA
GTGAATAGGAATTTTTTGTTATTGGTGTTTGCGTTAGTTGAGATTTTATTCAGCAGTAAATAGAGAGATTTAAAATAGA
AGTGGCTTAAGGAAGACAGATATTTCTCCTTCATGTAAAATCTGAAAGTTGGCAGTCCGAGGTTAATATGGCACCTCTA
TCCAGTACAGTCTTCAAGGACACGTGCTCTTTCCATCTTATTGCACTGTGAGGTGTAGCCTCTGTTGCTAAATTCAACT
CACCATCCAATATGGCTGCTCCGACTCCAGCCATCAACTTCACATTCTAGCCAGTAGGAAAGAGAAAACAATAAATACA
GGCAGATAAAAAGATAGATGACAAATTTCTCTTAAGGGAAGTTTCTAGCACATCATATAATATCTACATAACGCTTCTA
CTACCAACTCATTCACCAAAACTTAGTTATATGGCAACACCTGGCAACCAAGGAGGCTGTGAATTTTCTCTATTTTGGG
CAGTCACATGCTTACATGAAAACAGGTATTTGAAAACAAGTGATGAAGAAAAGCATCAATATTAGGGGACATTTAGCAG
TCTCTGCCACAATGTTGCCTATTAATAATCCTGCATACATTTTAAATATTTAATATCAGTCTGCAACACTCTATTTGCA
AGGTAATGTATAGTATAATCTTTACCATATGAACTTAGTAGCCATGGTGTTCAGGAAAGTTGTGTTATTTTGTGCTAGA
ATATTTTACCTGCCCTAGGTAAGGGCCTAAAGATAAAATGTGCTAGACTAATTAATTTTAATGGCATATAGCAAGAGAT
TTCCAGCGTTAAAGATTGCATCTCCACCTGCAATTTGGGAAAGGAAAAACTGATAGCACAAAATAAAAGTAGTGGGTGT
CCTGAAAACTGTCTGATGCTCTTCATGTTCTTACCAACTCATATCCTCATCTAAATTTGAATCACAGGTACATTCTGAC
CTTGTCGTAGAGAGAGTCCTAAAGTCTCACGAGAGAATTACCGTGCTTGTTCTAACAAGACTGTGTTCCAGCAGGCATG
CCAAAATTTGATAGCTACAAATAGGGAGATTTGAAAGGAAAGAGGTGGGAGAGGTAATTTCTTTTAACTCAACTGCATC
TGGTGGATTAAGGTAGACAATATTACCATTTTGCTGACAGAAGGCAGACATGGCACTAAAGAGGGAGAATGAGCAACCA
CAGAGCTGATTTAATTTCCAGTGGGGTTTATGGAAGCACCAAAACATGATGTAGCCAAATGTTCCTAAAAGTATGAAGT
AATTTAATTTGTTCCATCATTACAAGAAATTAAAGCCAAGCACAATTACATCCCAGTAGTAAAAGGAACCCGCTGAATT
GCCATTGTTATTGACTAAATGAAGTGAGATTTCTGATTACCTTGTCCAGCACATTTTAATTTCTGTCTGTCCATTTATT
CCAAATCACATTACAGGGCCTTAACTGATCTTGACAAAATAAGCTACATTATTAAGGTGCAGTTTAACCTGAGAAGCTT
TAATTACTAGATTAGAGTTTTCAAATGGGCATGTCTTCTAGACTTCAGTACATTTAGGGATGTAATTATTAGAGATTCT
TTGTTTCTGATGTGCAAAAGAGACCCAAGTTTAAAAGGAAGACTTAAACTTACGGAAGTGATTTTTTTTTTTCTTCCAC
CAAGAGTCTCTTTGTAGACAGGTGTCTGTTCTGTTGGGAGTGGACTTACACCTCCTGAATGCTGTGATTGAGAGAGCTG
CCTCCATAGTGGAAAGCCCCCGGTAGAGGGTAGTACCCAGATTTCCAAGGGGAGGGGAGTTGGGGACTAAACGATGTA
CAGTGAACCCTCTCATAAGTAGGGTGTCTAGATGATTTAGCATTCAAACCAGAACACTTTTTAGAATGAAAGGCAATGC
TATTCATAATTACACTGGTATAACAGGCATAGACCTTGGAAGTTCCAGGCCAATTAGGATGTATGGACTCTGTACCTAT
AAGGAAGACAAGGCAATAGATATGTAAACAAATCAATGTGATAGTCATTATAGGCATCTGGAGAATGAAAGGCTCTATA
GGACACTGTGGGTGGGTGGGCATGGAGAACAGTCACTCTCTTAGGGATTTCTCTCCCCTGGAACAAAAGTTACACTAAT
CATGTGACATCTCAGAGCATGAAGTTTGTAGCTCCCTCAACCATATTCATATTCCTCTAACAGTCCAGTTAATGATTCT
CAGATGCATTAGAAACTATGGAAATATTATAGAAAAGAAGCCTTAACAGGGGAAGTGTTTCATGCTTTTTCAGTTCCAT
TCAACAAACATTTATTGGATACCTAGTATATGACAGCCAGTGTTTAGCACCAGAGATCAAAAAATGAATTCATTATGGT
TCCAGCCCCAGAGAAATTCAGTCTAGTAATAAACACATAATTGTGATAGACTGTTTAGTGATTTAATAACTTAAAGAGT
TAACTTCTGATTTGGTTCTCATGCATCAAACATAATATTTGCCAGTCTCTATCTCTACAAGGAGCCCTGGATTTTTCCC
AGTCCCCTACTAATGCTAGATAATATGGCAAAATACACAGGCTGATCAGGCTGTTTTAGAGACTCTTTTAAGCAGAGAT
CTTTTGTTTTCCAGACTGCTAATTTATTTTTTTCTACCCAGAAAGCCCTTCCTACCATCTGAGCTATTCTGACCAAATC
AGCGAAGACAAGCTACAGAGATTTAGGATGTCTGGGCTAAAAAGGTTTGCTTGTTTAATTAGATAAATAATTTGAGAAT
GCTTTCCAGGATTACTGTTCCTAACCACATTGATAAATGCTGGGAAGACTATCTCAGTTATCCAGCATTGGATAACAGA
CTGTTGGAGAAGAGTGAAGCTTCAGTGTGAGCTGGGAAAGATCCCAAAAATCCTAACATGCTCTAGGTGCCTGCATATA
AAATTCATCATCATAGTGACTTTAGGACCACTTGCTATTTTTCAGGCACTGCTTTACATACATAGTCCTATTTAAATAA
TTTTCAGAATCATACTGTGATATAGGTACTGCTTTCTCCATTTTATAAATTAGAAAACAAGCTAGGTTAATTCACTTTT
ATAAGGTGCCAAGCTAGTCAATCAGTGGCAAAGCTCAGATTTGGAAACAAGGACTGCCTTACTCCAAAAACTGTTCTCT
TAAATTTCAGTGTTTGTAAGGTCCCTCACTGCCCCAGCATAACCCAGCATTTGGTCCATTCAAGGATTAAGAGGAACAG
GGATCTGCCAGCCTTGTTTCTGCAGAAAAAAATGGGGGAGGCAGAGCTGGATCTAACCAAACAGGTTAAATTTAAGTGC
CAGGTTTCCGTGAAGGAGAATTATGCCAGCAATGGTTTCTCACCTTAATGAATTCATTTCTAACCATTCTTTGCCCTGC
AAAGACAGCAGGATCCTGGGTCCACAGGGCCCAGTTCATGGAGAGGAGAAAGAGGCACATAATGGGAGCAAAAAGTGAA
GAATTCAAGCTGCAAAATGTAACGGAATTCTCAAAGTGCTGGGTTCTCTTCACTCCCTTATCTGGCAGCTCCTGTTTTT
TCTCCTTTGCCTCCCACAGTTGCCACTTTAAAAAGTCATTTTTAATGTGGCACATATACACCATGGAGTACTATGCAGC

Fig. 6.332

CATAAAAAAGAATGAGTTTATGTCCTTTGCAGGGACGTGAATGAAGCTGGAAGCCATCATTCTCAGCAAACTAACACAG
GAACAGAAAACGAAACACTGCATGTTCTCACTCATAAGTGGGAGTTGAACAATGAGAACACATGGACACAGGGAGGGGA
ACATCACACACTGGGGCCTGGTGGGGGTTGGGGGAGCAAGGGGAGGAAGAACATTAGTACAAATACCGAATGCATGCGG
GTCTTAAAACCTAGTTTGGGCTGATGGGTGCAGTAAACCACCATAGCACATGTATACCTATGTAATAAACCTGCACGTT
CTGCACATGTATCCCAGAACTTAAAGTAAAAAAAAACACAAGAAAACAAACAAACAAAAAAACTCCTTTTTAAACATTG
TCTCAGCGTCCAGTCGGTTGAGTTTCTGCACTTTTAGACACTCAAGCCCCTTCTTTCGTCCTTTGCTCCAGTGGTTGTA
GCTTCCTACCTCCTTCTTACCCTCACCCCTAGGCTTCCACTTTAGAGAATTTGGAGAACTGGGGAAAGAAAAGACTGTT
TTGTGCATGGTGTGCCTGCAGCCTAGTGCCATGAGCTGGTTCTTGCCGTGTCTGAGCCACCAGATCCACTCCTTCTGTG
GTTCACACGCTATTCCCTCTATCCCAGCCAAGCTTGCAAACTCTGATCATGAACTACCAGGTGGAGGSGGGGCATGGAT
ATCCTCCCCAGGAAGCCTGTCTGGAACCTCTGAACTTTTCTGACCTGTGCATGCCTCTACCACAGCACACCTTAATTTC
TTTTGAAATCACTGCATTTGTTCATTTGTTAGTTGTTTGCTTCTAGATGGTAGACGCCTTGAGGCCAGAATTCTTCTGA
ACTAAGCTTTGGAAGTTGAGCACCTCATAGAATACCAAGCTTCTCGTATTACTGGTGGGGTTCAACAAGTATTTGTTGA
GAAGTGATGAATCAAGCTAAAGTTTAAGTAGGCAAAGATGAATCACGTCATAACCTCTGGTTTCCYAACTTTGTCTATA
GAAAAGGCTCCTTGCTAGGTAAAACAAAAACAGAAGAAGTATGTGGATTCTCTTCAACTTTGGGACTCATCACCCTGAA
TCTCTCAGTTATCTCAAGACTGATTCCCTCCACCCTGGAGGGCCTCCCTGCCCCTCCTTTGTACAGCAGTGAAAGGCAG
AAATTGAATAGAAGGAGGGAAAGAGGGAAAAAGGTCTAGATGATCAAGTGGCAAAAACAAATAACCCAGCATGAACAAG
TATGCAGAGAGGGAACTCTGAGGAAACTTGCTGACAAAAGATAGAGATGGAGGTGAGGTCAACCACAGGGGAATAATGG
GGGCAGACAAGTCTAAGGAGGTAGATTTTATAGGGACTTCGAATAGATGAACTGAAGTTTGGGGAAGACCTAAAGGCAT
TAAAAATCCAGTATAAGTTCTTGATTAAGGACAGATATCATAATAATTATTATTATAATACAAGGGGTGCTTTGGGAAC
ATAGGCTATGTAGGAGGGATTGACAGAGGAAGGGAGGAAAGATCTAGGAAAATGAGGGCCAAACGGAAAGGTGTCCTTC
TCCTGTTCATTTGCCAATGAAATGCCTAGGATATATGGTGGTCTGCTCCTACCCTCCACAGTTCTAGCCACTGCAACCA
GGATGCCCAGCAACCATGTCATTCATTCATTCATATGGTCTATCTGTCTCCTATAGGCATTTCAGTGAGTGGCCGCTGC
TTTATGTGTTCTGTTGGTAAACTTGTAGTACCCTGAGAAAACTCACACATTATGGAGAAATTACTTCAAAAAATATGCA
CAGTAGTTAACTGAAATCTTTTTATGTGTTCTACTCTCACGTGAAGTAGAGAAGTAGAGGGAGAGTTTTTTAATTATAA
AAAGGGAGGAAGAGGGAAGAGGGAAACAAAACTAACATTTATTAAGCAAGGTAATTTCTTACCTCAGTGTTTTCAAACC
AATTGGTAGATTTCAAAATCAATTTAAGGGGTCACAATTAATACTTTAAAATTAAATWAAATAGAAAACATCAGAGTGA
ATCATACATAGTAAGGATAAATGTTATTTCATGTTAAATTATGTTTCAATTCTCTGTATTGGCTCGAATATATATTTAC
TCTTATGTGTATGGTATATACTGTTCCTATATATACATTTCCTTTTTATTTTATATATATAATTCTTTTTATTGGTTTA
ATTTATACTGAAATGCATGGTTTGTTAAAGACTGTAAACAAATTTTGCCATGACTATTATTTATAAAACACAAGAGTTT
CTTTAAATAGGAGTCCACTGCTCTCCTCTACCTTTTAAAAATAAATATAGGTATAAAACCTTTTTGTACATTTTTTTA
TATTACTGAAAGCCAGCATCCACATGCCTTCAAAAGTGAGCACCTCTTACTTTAAACAAATCTACCAGGTTATAGTATA
AAATATAAATTTTACTGTAGTTTACTGTCAATAAACTTTGTAAGCCACTGCTTCATTTCATTTAAACTTCCCCAAAACC
TTGTATGAGTGGAGTCTGGGGATTCAGAAGAAGACGGTGGTCATCACAGAAGTTGAAATTCTCTACTGTTTACTTCTTT
TCAAAGGTCTTGTTAGCGGTGGCCTTGAAGGTGATGAAGAAAGACACTTTCAAGGTGGACAGGTATAATTATTGGGTCA
CCAAGAACAAATTTGAAAAACAAAATATGCCAATTGAAATTAGCATGTAGCACCTAAATACCCAGAAGCTTCTTCATTG
AATAATTTATTCATTGAATAAATTATGTAAACTGAATTAGTAATTCCTAGTGAAATAGTGGATGAATTGAGAATAGTGG
TATTGGTAAAAATGGAAAAAAAATTTTTTTCTTTTGAGACAGAATCTCACTCTGTCCCTGAGGCTGGAGTGCAGTGGCAC
GATCTGAGCTCACTGCAACCTCTGCCTCCCAGGTTCAAGTGAGTCTTGTGCCTCGCTTGAGGCACAAGATTAGATTTAG
TAGAGATGGGGTTTTGCTTTGATGGCCAGGCTGGTCTCAAATTCCTGGCCTCAAGTCATCTGCCCACCTCGACTTCCCA
AAGTGCTGGGATTACAGGCATGAGCGACCGTGCCTGGCCAAAAAAAAAAAACAACAACAAAAAAAAACAAAAAACAAAA
CAACTTAATTCATAAAACTTAATTCAACAATTTAAGAGTTATACTTCAAGAATGAAGATATATAATGAAAATATGAAGT
CTTCAGAAGGACACACATATAATAATTTTAGTAAATCTCAAATTTGTCTCAAATCAAAAACTTGCTACACATATTTTTG
TCTTAATTATCATAATTAAAAATGTCTACACATTACATAATACTATCTAGTAAATATGCCCTAGAGATTGTGTGTGTGT
GTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTATGTACACCCATTATGTTTTCAGACAATTGGAAGAAAATTGTTAG
GCAATTGTTTTTCTTTTATCAAGGAGCTGTCATTTAAGTGCAAAGCTGGAGTATTCAAAATAAAATTTGGGCTTACAAG
ATCAGGGCATGGCAAGACCTATCCAGATTGCTGTGGAATAATATATGCTTCCAAACGCTAATCTTAAGGATGAAAAACA
CATAAATGACATGCCTTCTTCCCCTTGCTTACCTTAGTGACTACAGTTTAAATAATCTAAAATAGCAGATACCATCAAT
ACTGTTGCTAATTATGCTACTTTTCAGAGAGGTACAAGAGTCCTTGTACCTCTAGTAGTAGTGATACCACTACTAGTAT
CAAAAATACAAGATTGTTTTGTTAATTTTGACCATGTTTTAAAAAAAGATAGGGAGGAGATGAATTACTATTAAAAGCA
GCTCTTATATTTTACATGTAATAGATGATAATTACAAGTTTTTAACAAATAACACATTTAAGTTGAACTGAACCGCCAA
AAAAGATAGAGATATGAATATATGATTTTTAGATTAAAGTTAGTTTTAACATTCAAATAAAGTGTGGGAAAATGGCCTG
GAGGCCACCTTCTAGGGAATGTATTTTTAGCCCTATTTTACAAAAAAGAAAACTGAGGTACAGAGAAGTTAATTTGCCC
AAATTTGCCCCATGGTTGCTAAGTTGCAGAGCCAGCATTTGAACCACTGTTCCCAAGTCATACTCTTTCTATTGCTTGT
AACTGTCATCGTAGACCACTAAAGTGGATACCTCCACAACTCTTTGCTTTCCACTGCATCTGGACTACCACAATAGCTC
CTTAGTCTCCATCCTTCTCTCTTCTCCATTCTATCCTCTTAGGCTACCAGTGCACTTATCCAATTCCCACAATATCCAC
TAGCTCAAGGCCACACATTTAAGTGTTCAACTCTATATCCCTTCTCCTCCCTGGAATGTGTCTACTCCACCCAGCCCAT
TTACTGTCCACACATACAACCTTTATTCAGGCTGCAGACATTTCCTACACCTGAAAACAATGCCAGCGGACTCCCTCCT
CCCACAGCCATTAAAACCACAGTCTTCCTTGAAGACCTACATCCAAGTTCACCTTCTTCCTGAAACCCAGCACACTGAG
CTATAGTCCATACCTCCCTCTCCCTGCTCGAACTACAGTAGCACTCCCAGGCTGAATGATTTATATGCTACCTTACACT
GTCTCTAGGCAGCAGCCGATCATGTGTCTGATTTTCTCAGCAGGTTATTATGGTTCCTTCCTGGGCCCAGGCTGCTGAA

Fig. 6.333

TCTTTCATGTTCTTGTATTTCACAGCAACTATCACATCAGAGAGGCTCAATAAATATGTATGGATTTTTTGACTATTCT
CTTTCAGGGGGAAAAAAATGAGAGAAAGAAAAGAAGAAAGGGAGGGAGGAAGATTACTCTCTGACCATTTCTCGATAGC
ATACAAAGTCAGGAGGAAGAGAAATAAAATGTCGTTAGTGGAGATTTCAACCATATGGGAACCTACTAAACACATGTAT
TTGTTAATGTTTTGGAGTTACCTGACATATAGGTATAGGTATAGGAAAACCTATTCCAGGTATTCTTCAAGAGGTGATA
GTTGTTGTGTGAAAAATGCATTCTAAAATCAAACAGGTTTAGATAATGCTTGTTAATAAAATTAAATATCTCATTTTGC
TGTGGACCTTCTAGCTTTTGGTAGGTTCGTGTCCATTAGAAATCACTGTAAAAAGCCTACATATACAATATTTCCCAAG
CTTGTTTGACCACAAAACGTCATTAGTAAGGAGAATCTTATAAGGACAATATTGATTGGAACATTCTTTGGGAAATGTT
TGAAATGATCTTCCCAGTAACCTCAGTGTAAGTGATGCTCTGTCATTAACCAATGACAAATACATATTCTTCCTACATA
GTTGACTTTTCATGATTTGGTGTGGTCTTGTAAAAGCTATTCTATTTTGTTGTTTGTTTGTTTTTGAGACAGAGTCTCA
CTCTGTTGCCCAGGCTGGAGTGCAGTGGCAACCATCTCCTCCACCTCCAGGGTTCAATTGATTCTCCTGCCTCAGCCTC
CCAAGAAGCTGGAACTACAGACATGTGCCACACACACCTGGCTACTTTTTGTATTTTTAGTAGAGATGCGGTTTTGCCA
TGTTGTCTAGGCTGGTCTTGAACTCCTGGCCTCAAGTGATCTGCTCGCATCAGCCTCCCAGAGTGCTGGGATTACAGGC
GTAAGCCACTGTGCCTGGTCTAAAAGCTATTCTAAATCATAGGTTGTTCACTCACATTTGGCTCAGAACTGGTTAATAT
TTGAGGGTTGATGGTGATGATGGAAAAATAGTAACTGTTTTAGGATTGAGAATCTGTGGAAAAGGAAGGAAACTCTCAA
ATATTAACTACCTTATTTAAAATTAACTTATTTAAACAACTCTGCAAAGTGGTTCAGTATACCTACTATTGATTGAATA
CCTTCTATATGTCAGATACAGCCCTTGGTACTTTACATTTCTTATGCATTTCTCATAATAACCCTGTAATTCTCAATGT
ATACAATGTGCTCAGGTCTTTTAAATGGCTTATTTCAGATAATACAACTAGAACAATGGCAAGGCTGGAATTCAAGTTC
TGAGTGACTCAAAAGTCCATGCTCTTTCTGATCTATCACACTATTTCCCATGAAGAGCTCTTATAGGTTGTGGATTCTT
CTGTGTGTATAATAACTTTCTTAGCCAAATCTAAATCTCCATAGATATTCTTGTAAAATTATAAAACTAATTTATCTTA
TTCGTGTATGGAGCCAGTTCATATACAACTGGATAAGCCAAATATAACCGATATACTCTTGAGTTCTGAAATTTGTTCT
CTATAATGCACACACAGTTAACAAATGTAGGTTTACCAGTAGGCCAAAATAGTTTATCACTCATATGTGTTGCTTGTAA
TGCAAGTAATGAGATTAAAAATTGTACATAAGAAATTACCTTTCTGAGACTCTGTTCATAGCCTGTTTAAAAGGGCCTA
GTCTTTTCRGGAAATCTTTTGTGTGTTTTTTCTTTTCTTTTTCTCTTTTTTTGGGACAGAGTTTCGCTCTTATTGCCCA
GGCTGGAGTGCAGTGGCACAATCTCGGCTCACTGTAACCTCCGCCTCCCGGGTTCAAGTGATTCTCCTGCCTCAGCCTC
CCAAGTAGCTGGGATTACAGGCACCCGCCACCATGCGTGGCTAATGTTTTGTATTTTCTTTAGTAGAGATGGGGTTCAT
CATGTTGGCCAGGCTGGTCTCAAACTCTTGACCTCAGGTGATCCACCTGCCTTGGGTTCCCAAAAGGCTGGGATTACAG
ACATGAGCCACCATGCCCGGCTGTGTGTTTTTTCTTAATCCCAGTCTTCAACTGGACAAATGTCTCTTTGGCATTACTT
CTTAACCCTTAGGTATCTCATAGTGAGAGAGATATAAATGCTAAACAGAGATTTATGAGAAAGTTAAAAAAAAGAAGAA
GAAGAAAGCAGAGATAGCGATTCCGAATAAAAGATTCTGGGGCAGTGTTGATTAAAATAATTGCTTTCTTTTCTTCACT
CAGGAAAGTATTCTTAACTTGGAGTCCTTGGTGACTTCAGGGAAGTCAGTGAACACTTTTAGAGTGAAAAATATTGATA
ATATGAACTTATGCTCATTTTTCTGGGGGTGTTTGCATCAGATGCACCTTTGTGCATTCATCTGTTTCTCCCAAACATC
ATACTGGTGTATTGGTGAATTCTTTTAAAATTTTACTCTATTTTGTAAGGATCATTACATATGAATGATATACCATAAT
ACTTGTCATTTTTATTTTAATGTTAATATTTCACTTCAGTAAGACACCATGATCTGCTTGACCATTACCAAATTTTGGC
AATGTTAGTTCCTAATACTCTTTTAAAAAAAGAGAAAGAGTTTGAAAGCAAAAGACTGAGAACAAGAGATAGACGAGGG
TGATTACATGTAGGAAGCCACACCCAGGCCAGTATTACTGTTTGAATCTCRTTTGGAAATAAATATTCTTATCTGATAG
AAAACAAGCATACTTACTGATTATTCACTCACAAATATTTGCTGAGTGCCTGTAAATGTCAGGAATTTTCTAGACAGTT
ATAGAAAGGCCTAGACACAAATATAAAAATGACATTAGAAAAGTCATACAGGCAGAAGCCAGCAAATTATTTCCAGGTG
GAAAGATTGGCTAAGATGGGCAGTCTTGGATGGGATAGTCTTAGATGTAAATAAAAGGGAAAGGTATTGAAAAGCAGCC
GAAAAAGGCCTATGTGAACAGAAGTGTGACATTAATACAATAAGTAGGAGAGAGTTGTGCAGCAGGTTCTTAAAAGAAT
GAAACAATAAAACCAGGGTTTAAGGAAGATTATTCTGACTTTATAAATAGGACTGTGTTGAGAAAAAGTGAATCCAAGG
AGATCCAGTAGTAGACCATTATATGAATCTAGAAATACACAGATGAGAATTTGACTGAAGGTGACAGTTACAGAAATTA
AGAAGAAATTGGTAAGTCAACTGGCAAAGTATTGGATGGGAATATGGTAGGGGTAGGAGTGGAGATAAGCAGAGTGAGT
GTAAATATACTCCAGAACTTTCTATTTATTAATAGCTTTATTTCTGAGAATACCTCAATTTCAAATAGAAAACATGTAC
CCCTGAAGAACAGTTGAGCTAAACTCACAGAATTCCAGGATCATGGTATTGGATGGGATCCTTGACAAGTAACTGGTCA
GTTTAGGAATTCCCTCTACAAACATAGCTGACCCCATCCAGGCTAACTATAATGAACAACCTTAAAACCAACACCTAAC
CCAGATAGTACAATTTCAGAAATCAGATAATAAATGAATGTTAGAGCTGGGTAGGTGCTAAAGATAATCTGTTCAAACT
CCTTGTTTTCTCTAAGGAATACTGTATGCAGTAATTGACAAAGGTGAAGAACAAAAGACTGTTATATCCTAAGATTGAT
AGTATATGATGGAAACACAGATGCTCTCCTACAGTCCCCCCAGGGAAATAAAATTGATTCCTAAAATTACAACAAGAAT
ACGTAAATAGCATACATAATTGTAACTTTTTTTAAACCTGTTTGCAAAAATTGTCCTGTAACTTTGTTCAAACAACTTC
CCAGACAAAAGCTTCCTCAGTAGCATTCTTTAACACCCTCTTTAGTCTTGTGTTGCTGAAATATGTGTTTGGAATGAAA
ATTATCTTAGCGCAAACCTGTGGGTATATACGGTCTGTACTGAATATCAATGGCAAAGCCTTGATATTTGTCTTAGCTC
AAGCTGCTATAACAAAATACCATAAACTGATGGCTTAAACAACAAACWTTTATTTCTCACAGTTCTGGGAGCTGGAAGT
CTGAGATCAGGGTGTCAGCATAGTCAGGTTCTGGTGAGGGCATCTTCAGGGTTGCAGACTGCCCACATAGCATGTATCC
ACATGGTAGAAAGAGAGCAACCTCTGGCCTCTTCTTATAATGGCACGAATCTAATTCATGAGGGCTCCATTCTCATGAC
CTAATTACTTCCGAAGGGCTTTCCCTCCAAATACCGTGACACCGGGGATTAGATTTCAGCATATGAATATTGGAGAGAC
ACAAACATTCAGTCCATAACAATATTTTCCTTTGACATTTCCTTTTTCTTTGCTCCTGAGAGTTTTTCCTCCTAACTTT
CTGCAGCTTCTCCTTCCCCTTCAGGGACTGCTTAGGATTTTCTCCTTATCTGGTCACCAACCTCTTAACTGGTCTTTAC
TTTTCTGATCTGCCTTTATACTATTCCCAGAGTAATCTTTTTGAAAAGCAAATCTGACCATGTGACTTCCTCACTTAGA
AGATTTTTAATGGCCTCTTTAGAAGAAAATATTGTCTTAGAATAGTATACAAGTCCTCCAAGACTAGTTCTCCATCTTT
ATCTTTGTCCACTGTCTGATCTAAACTTTATATCCCTACCTGTTTGTAGCTTCCTGAATGGCCTGTGTTCTCTAAGTGA

Fig. 6.334

ACTTCTTCAGAATGAATCCCTGTTCATTCCTTGAAATTCTTTTTTCTTTCTAACTACCCTAAAAACTGTTCCAGGTAWC
TATTAAGTTTCTGGACCCCGAGGTTATACCTAGGTATTAGTTGATAGGCTCACTAAAATTAATAGAATGTTTGCATTTA
AGTTAGAGACTTGAGTCCAGGAGAAAGTGAAGATACAATGGAGGAGGAAGGGAAAAGAATCTATTAGGCAATCAATGCA
AGATTATTTAACTCACAACCTCTCACTTGAACTAAAATAACTTACAAGGCTCTTGTTATTATCTCCAATCTATAGGTGA
AATAAGGCCCTAGAAAGATTAGTAGCTGAATTGCCTGGAATTGCTTGTATGAAGTGGAATAGAGATTGGAATCTTTCTC
CACTCTTCCAGTTTCTTTCAAAGAATAATATCACTCACAGTTGCACACATGTCACATGAAGCCCCCAACCTAGATGCCT
AATTAAACTTAGCTCAAACTCCAATTTTTTGGACAAAAGGCCTCCTTATTCTTATAAAAGCTTTCTCCTCTTTCTTTGA
CTCTTCTCTTATGTCAGCTCAGAGAGACATTTCTGCTTGGGCCAATCTGGCCTTCAAGCTCAGTCCCTTCAATGAATAA
AACAAAACAAAACAAGTCGGGATTTTGTACCTTCAGTAACCTTATTGACGATTGGGAGAAAGGGAAAATGCACGGGTTG
GAGTTACCCTTTAGACCAAGCTGACTCCTTTCTCTTATATGCACACACACACACACACACACACACATCTTCAATAACC
TTATTGATGATTGGGAGAAAGGAAAAATGTACAAATTGGAGTTACCCTTTAGACCAAGCTGACTCCTTTCTCTTACACA
CACATACACACACACACACACACACACATTCTCTCTCTCTCTCACTCTTTCATGCCCTTACATACATGCACACACAG
AGACCAAGCTGACTCCTTTCTCTTACACACACACACATGCATGTGCACAAACACACATTCTCTCGCTCTCTCATGCGCT
TACACACATGCACACACATACATATTCCCTCTCTAGCAACTGGCATATTCCTCCCCTTTCCTGTGTAGATGAGGCACAG
ATTAGTTCCACCCAAACCAAAGCTCTTCAAAGTCTCACCTTCTGTCATAAATAGCTTTATCGAACATTTTAATGCAGGC
AGACTCTCGTGAAAGAAATTCTGGTGAATTCCATTGTTTTTTTCTCCATCTTATTACAGTATGATTAATAAGTTAGTGA
CTACAAGGTTGTAGTTTTTAAGAGCAAGAAGTCCACTCCCTTTCAAGTCACATTGGGCAGTCCTTCTGTTCATACCTGA
CATATTGTGGGAACATATGTCTGCGTAGGATTTTAATACAGAGATTGTCTTAGATAAGAATAATCGTCAGAGAAGCAAA
TGGTCTATAAGTTATTTAATTTTATTCTTAATATGGTCAAAGATAATGGTTGCACTGACTTCAACTTTACTTTCTTMAA
TTCCATTAATTGCATAGCACTAGAATTTTCCATATAAAATAAAATCAGATCCCATGTCACACAGTACTCTGAGTCACTC
TGTGACTCCTACTCTTGAAGATATAGTCCTACCTGCAGATGCCTGACATGGCCAGTCTTTGAGATGGCCAGTGGCTGAG
GATTTCTCAGATTTCTCCAGAATCTGTTCCCCTAAGCAAGGCCCTACTCATGGTTATTTCTTTTTTGACACACACATCT
TTTTTTTTTTTTTTTTTTTTTTTGAGACAGAGTTTTTATGCTCTTGTTGCCCAGGCTGGAGTGCAATGGCGCAACCTCT
GCTCACTGCAACCTCTATCTCCCAGGTTCAAGCGATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGAATATAGGCATGT
GCCACCAAGCCCGACTAATTTTGTATTTTTAGTAGAGACAGGGTTTCTCCATGTGGATCAGGCTGGTCTTGAACTCCCG
ACCTCAGGTGATCCACCCACCTCGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCACGCCTGGCCGACACAGA
CATCTTGTTCATCATAGGTCTGTGTGCTTGCTCATCTTTTCTCTTAAAAATCCTTCCCACTCTCTTTTATTTCATTCTT
GAGGACTCAGCCTTTTCCCACTCCACCTCTGTCCCTGTCTGATTTAAATAGTCCTCTTTTACTGTCCCATAGCCCACAT
GCTTCCTTCTGTGAGAGTGCACTCTACAGTTGTTTGCTGAAATTACCTCCTCTGCTGGACTCTGGGTAAGGGACACACT
CTTTTCATCATCTTGTTTCTGCAGCCTCTAATAAAGTGCATGGCACATAGTCAGTGCTAAATAAATGTTGAGTTACTGG
TGGGACTAAAAGTCAATGAAAGCCAACCTCATGTTTATTTCATATAAAAATTCTACTAGAGGCATAGGCAACATTCGGA
AAAACAATTGTAGTTAGTGAGAAGATAAAAGAAAAAGAAAACCGTCACAAAATTGCACACATCTTTCCTTTGGAAGCTT
TATGAAGTACTAAATAAAGTTTTATATATTTTATACAATTTTAAAATACTTCAAAACAATAATTTGATGCCAGAAATAC
ACTTGGAGATGAGAGCAGCTTGCCACTAGCAAACTCTGCTTAAACCTATTACATGTACACATTGAAAGAGAATCCAAAG
CCTTCATGTATTTCCCATCAGATAAAATGTATAGAGGAAAAAAAATTAAGTCAGCAAAAGTTAGACCTAACCTACACAA
ATCTTTTACTGTAGCAAACTAAAGGAATGACTAGCTCAAAGCAATACACGGTGAAACAGAAATCATTTTTTCCAGTTCT
ATCTACTGTAGACAGTATCAATTCCTTCCKTAGAACAAAGGGGAAATTTTGTAAGAATTAAGAGAAGAGAAGCTGGAAC
TGGTTAGGGAGATTTAAGTATTTGCTCTTAGGAGCTTTTTGTTGTAGTTCTTTTATTTTTAAAAAATCTGGATCAGTGC
TCATCATGACTGGCCATCAGAGAAATGCAAATCAAAACCACAATGAGATACCATCTCACACCAGTTAGAATGGCAATCA
TTAAAAAGTCAGGAAACAACAGGTGCTGGAGAGGATGTGAAGAAATAGGAACACTTTTACACTGTTGGTGGGACTGTAA
ACTAGTTCAACCATTGTGGAAGACAGTGTGGCGATTCCTCAAGGGTCTAGAACTAGAAATACCATTTGACCCAGCCATC
CCATTACTGGGTATATACCCAAAGGATTATAAATCATGCTGCTATAAAGACACATGCACACGTATGTTTATTGTGGCAC
TATTCACAATAGCAAAGACTTGGAACCAACCCAAATGTCCATCAATGATAGACTGGATTAAGAAAATGTGGCACATATA
CACCATGGAATACTATGCAGCCATRAAAAAGGATGAGTTCATGTCCTTTGTAGGAACATGGATGAAATTGGAAACCATC
ATTCTCAGCAAACTATCACAAGGACAAAAAACCAAATACCGCATGTTCTCACTCATAGGTGGGAATTGAACAATGMGAA
CACATGGACATAGGAAGGGGAACATCACACACCGGGGCCTGCTGTGGGGTGGGGGGAAGGGGGAGGGATAGCATTAGGA
GATATACCTAATGTAAATGAGGAGTTAATGGGTGCAGCACACCAACATGGCACATGTATACATATGAAACTAACCTGCA
CATTGTGCACATGTACCCTAGAACTTAAAGTGTAATAATAAAAAAAATCTGGATCAGTTGTTATAATTTTTTTTGTTTT
TTTGAGTCGGAGTCTTCTGCTGTTGTCCAGGTTGGAGTGCAGTGGCCCAATCTCAGCTTACTGCAACCTCTGCCTGCCG
GGTTCACGCCATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGACTACAGGCGCCCGCCACCATGCACGGCTAGTATTTT
GTATTTTTAGTAGAGCCAAGGTTTCACTGTGTTAGCCAGGATGGTCTTGATCTCTTGACTTCATGATCTGCCCGCCTTG
GCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACTGTGCCCGACCTCAGCTGTTATAATTTGTATTTTTTTTTTAAA
TTAAGGGCATACAAATAGTGTCCAAAATAAGTGGTATTTTTTGGACTTGTTCTCTTCATGTATACCAATAGGTCTATCT
AGGAATTATGACAAGCCGATACAGTCCTTTAGCAGACCTTCAAGTGTTGGCAAAGAAACTAATGTCCACATAGTTACAC
ATCCCGTACAGTGGATCCTTTTACCTCAATGGTCAACATCACTGTGAGTTGTGGGTAAGAGTAATGGACTGAACATTTC
ACAAAAAATGACCTCAACCTCTAGCTAACTGCTGTGGCTCTGAGGTGATTACTTTTTTCCTTTTTCAAAAGGAAGCTGC
TTCTTCAGCATCTTCTCCTGGAGCCCCTGGCACAGTTTCAGGCCATGTGTCAGGGGAACCTCTAAGCATATCACTGTGA
CAGAAGCCAAGTGCTGGCCCGCAAGAATTGAGGACTGTTTGTTCACAGAAGAGCCTCAGCAGAATGCGGGTGTTACATA
GTTCAAAGGTGCCTTGAAGAAAACTGATGCTGTTGTAGCAGGGGCCTTCAAGGCTCAATTTATTCTCAGTTGCTGTTC
CATAGCCCTCTCCCAGCCTTTAGGGAGTTTAGCCAATAGTTTTTGCKTGGGTGTTTTTCTCTGTTTAGTTCCTTGACTT

Fig. 6.335

AGCAAGATTTGGTGCAGTTAAAGAGTTTTCATGTATTTTTAAGGAGAGCCACAGTGTATACTACTCTGGCAGGGGTTGA
GGGGAAGTATTTTATTAATGAATGCAGTATGTGTTCTTGGTAAAAGCCAAAATTAAACTGGCTCACTGTTTTTGTCCTG
CTAGCTGTCGACATTTAGGTGTGTTGCTTGGTGTGGTGACTCAATTTCCTGTGGGATAGTTGGCAACTCCACTTTGAGG
TTTGTTCGGCGGGATGAAAAGGTCAGTTACTTGATGTCTTAGAACACTTGGGGTTAAAATTCCTAAAAGTGAAGCTTTA
CAAATGATCCTGAAAAATCGTGGCTAGCTATATTGCCTACTCACCTAGGAATTTGGAAAAAAGCAATATTCTCAGCTCT
ATGCTAATATCAAGAATAATTCTTTATTTGAGCAACAGTTTCACAGAGCAAACTTTACTCTGTTAGTAATTATTTTCTC
ACTAGCATGTAGATGTGTTCCAGTGATTTTTCATTTTTCTTATTTATACAGATGTTAGAACTTAAAATATATGCTTACC
CCATTTTATCATCATACTCAAATCCTGTCTGTCAAAAGTGGCTGGTGCATGGCTTGGACATAAAATGGATATTCTGAAG
TAAATTGTTCCTCCTGTCACTATACTACCTTCTTAAGAACAAATCCTGTGTATAAAGTGCATGATGTCTTGAAGCATTA
GCCAAAACTTTCCTGAATTATTTTCCACATTAAAAAATAACAACTGAAATATAATGTGTGGAGCCACATCCTGTTAGAT
TTGAAGCCTGAGTCTGAAMAGCTTTGGGAACTTGGTGAAGATGGAGGAAGGGGGCAGTTTACTTAGCTACTGGGAAATC
ACTTGAGGCTCAGGCTTTGAGAAAGTTGGAGTGCAGGGGAGAGGAGCCACAGAAMGCCGAACCTCAGAGGGGACTCCCA
GCTTCATTGTAACCAATGATTGAAAAGATGGCACTGAACAAATCCCAGACACAATGGTTATGCATCTTTAATCCACTGG
ATAGGCTAACTATGGACAGCTCAAATGATCATAAAACAAGTCAATGTCCTCTTAAAATTTCCTACATTCCTATATTATG
GGAATGAGAGAGAGAGGAAAATATCAAAACCAAACCATATAGTAGATGCACTACCATGGCAACTAGGTGATGCTATACT
TGCATATGGAAGTTATTCAGTAAAATGAAAATGATTGTGTTAGAGCCATAGGCGAAAGTATTGTTTGTGATCTTTAGGG
TGTGGGGTTACAATGGACTTCCTATATTTGTGTGTAATGCTTCAATTTTTATAACAAGCATGTAATATTTTTTACATTC
TTAGAATTGGGGAAGCTATACAGAGCAGGTATTTTATATTTACCATTTAAAATTATTAATATCTTTAAGCTTGTTAAGG
GGGAAAAAAAAGCTTCAATCTGAAACTTTAATTCACCTGGCAAGGTTTAGGCAGTTGTTTGTCCATCTAAAGTATATAT
TTACATAGACTGCGGGGTGGAGGAAGTAGAACAAAAAAGAGGCAAATTTTAACCTAGAGTACTCAAAGTGAACAGTAAA
TAGTTCAAGTATTCTTGATAACAATAAGCCACGTGGCACATGTAACAACTACTTTAAAAGTTACTCTAACTTTTACAAA
GTTCACATAAAAAGCTATCTCAAAAATCCCAGGAGCCTAAATTCAGTCCATGAACTTTATTTGTTGTGCCATGTTAATT
TATGGAGTCTAAATTTCAAGGGCAGAATTTCTTCTCCAATACCTGTAGATTCAAAGACAAAGACAAGGGATCCCACCAC
TTAGTGTAAGTTTCTCAGTATCTTCTTTCCACTCGACAATGACAAAGTTTTATCAAATGGACCCTTGGGAGTTTGACTT
CTCCTCACTATGAATGGTTTGCTTATTGCATGCTAATGTAGAAAAGTTCTCCCACAACTGATCTGCTTAGGGACAGTGT
CCCTGGTGCCCTGGGTCAGCCTTTGTAAACAGAACAGGCTTTTCTGTATGCCTTTGAATATGGTCTTTCCGTTTTCTCA
AAATTGTAGTGTACTCTGCACATGGTGGGTAGAAACACCCTTCCAGATTTTCTTCCTTGGCCCAAGATCATCTAGGTCT
TATGCAATTCACAGGGGAAAGGAGTAGTATGCAGGACATGCGTAAATTCTCCTTACCATGTGGTTCTTTCACATTGCTG
TTCCTTTAAGAGAACTCTTAGGCAATTCGGCATATGAAAATGCAGCCTATTGTCAAATTTGTGAATTATAAAGCGTTCC
GACCCCACAACATTGTATATTTTGTTTGCTTGTTTCTGTCCGCCCCAACATTTAGAAGTCTGGTACTTAGTAGGGACTG
GGCTGGGTAGAAAAAGAATGCGGTCTTAATTCCCACAACCCTGCCTCCTTGAAGTAGGTGAATCCTAAGCCTTTAGAAA
CGAACCCCCAGAAACCCTAAAACTTAAACCCTCAGAAACCTTGAGGGTCCTAAATAACCTTGTTTGTGAAACTTCGCAG
GAAGCAGCCGGTCGTGGAGTCGCAGAGGCTCCAGCGGTCTGGGCAACCTGGAGGGCAGTGGCTCGGCGGGGCGCGCGGT
GGTTCTAGCGAGACAGGTGCGCGGCCGTGCGCGCCTGCGTGCCGGTCCCTCCTGAGCCCCGCGGCGGGCGCGACCCCGG
ACGGCGGACTGCAGGCGCTCCACGCCGGGTTTTCCGCCGCTCTCCTAGCACAGACAGTCCCACAGCAGCCCCACAGACA
CACACGCTCGCGCCCGCGCCTCCTCGTCTGCACTTCAAAGCGAGTGGCGCCCGGCTGCGCSGGGGGGATGGCACTGCGA
GGTGGCGGGGCCCCCGGGGCAGAGCTCGAGGGGAAGGACGCGGCGGGTGGCACGGACAGGGACAGGCTTTTGCAATTCG
GAATCTTTTCGTAAGGGGGTTGAGGAGGAGCCAGGCAGCGCCGAGGGCCGAGAGGGGCGTGAGGGGGAGTGTTCCCGGA
AAGCTGCGGCGTTGGAAGCCGCGCTGCGCCTGCCGCCCGAGGAGTTGAGAAAGAAAACAGGAAACGTGGTGGCCGCGCA
CCCGGCCGCGGCTGATTCATTCACTTCAAGTGCCGTGCAGAAGGCTCGGCAGGCGGGGCGGGCGTGGGGCCGCGGCTCC
GGGTTGGGGACCGAGGAGATCCGGCTGTGGACCAGACGCTCCTCTGCGGGGCGGGCACCCAAGCGCGCTCGCCACCCCC
TCGCCATCCGCTAGAGCCGGGCTCCTGGACTGGGACTCGGGCCCGCCGCACAGTTGAAAAGTCGCATAGTGGTTTTTCC
GCTCGCGTCGCTGTGTGAAAGTTGGCTCGCCGCTCTTTGCACGCCCTCCCTGGAGGCCGACCCGAGACGCCAAGCTGGA
GAGACCGTGCCTCCCCGAGGCCGGCCGCCCCGCGAGCACAGCCTCCGCCCCCGTTGCACTGCCGGGCTGGGCAATATGA
AGGAGCAGCCCTCATGTGCCGGCACCGGGCATCCGAGCATGGCGGGGTATGGCAGGATGGCCCCCTTTGAACTCGCTAG
CGGACCCGTGAAGCGCTTGAGAACTGAGTCCCCCTTTCCCTGTCTCTTCGCAGAGGAGGCCTACCAGAAACTGGCCAGC
GAGACCCTGGAGGAGCTGGACTGGTGTCTGGACCAGCTAGAGACCCTACAGACCAGGCACTCCGTCAGTGAGATGGCCT
CCAACAAGGTAAGCCCCGGTTCTGCTGTCACTGGTGCCCCCAGGCTGCTGATTCCCATGCCGGCGAGCCACTGGTACCC
ATAGCCCCGGGAAATAAATTGAGAGGTTTTTTAGGCTTACTGCATGTTGGCTATTCTGCTCCTTAGAGGGAGGTTCCTG
TTTCCTTGCTTTGCCTCCCCTAGTCACGCCAGATAAACATTTTCCAAAAGCAATTTGACGTGCTAAATTTAAGTATCTC
CCAAGACACAGGGTTCCTAAGTAACACTGAGCCCTTGCAGCAGAAACCCAGTAGGGTCCATGGGCATTGCATGTTTAAA
GGTGTTCTTGGGATTCCCGGTTGAAAATAAGAATTGGTGGATGTCTGTGAAATCACTTGAATGTCACCACCTAGGGCAC
TCAAACTCAGAAGAGTTCATCGAACTTGGAACCTTCACCCTAATTCATCTAGTTGTCAGGGTACCCCGCAAGAACTGAG
CCTTTATATATTCAGTTGGCCATACATATCCGCAGGAAACATTAACAGAGTTAGAAGGTTCCTTATGATCATTACTTTT
GTTTCCATTAATCTTGGAAAGAAAGCCCAGTTTTTTGAGGTCATTTAGTACAAGGAGGCTTCAACTAGGCATCTGTGCC
ATATGTGCTAAGGTGCTGGTCTTGGCAGTTAATGGAGTTTTGAGGGCTGAGAAGTAACCTTCAGCCTGGGACAGCCTTA
AAATAGCACGGAAGGCAAGGTATAGTGTTTTCAGTTTTGCTGTATTTTTTGGATTTCCTGTTCTTTTTGTCTTTAGTTA
TGCAAGGAGATAATTGGAATTGTGTATGTTTTTAGTGGCTATTTGCCTGTGCATGTCGTATGCAGATGGCTGAAGGATT
CAGCCAGTAAGGACTGGTAATGTTGTGAGACAATTAGTAATAGTTGCCTCGTCAAGATATTTAAGTATTTTTGGCCACC
TATTTACAAGGTCAAGAAGGTTATATTATCTTACAGTTCATCTATGTGCACATATCTTTAAATGAGTGATGCTTTTTTT

Fig. 6.336

TTTTCTACCTTTCTATGGTTTTTATCCCACCTGTTCTCATGCAGTTTTTACAAAAAGGCCACGGCATAACAGCCACTTG
ATTGTCTTATCTATTAACAGTGCTTTTGTAGGTAGCATTGTCAAGTGAAAAGTTGGCTTCAAATAAATAAAAGGGGCTC
TGTAGACACGGCCAGCAGATACTAACCTACCCATATGCACACTGACCTACCCATGTCCACACTGATGATCAATTTTTTT
GTCATTTGTGCCTCATTTCTAAATTTGGCACAGCTCCTCATCAGAATGACCAATTATTGCTCTCTTACTGGGACTTTTA
CCCCCTGCTGTRGCATTAGGCACCTTTATTCTCATCTGAGTAACAAATTCTTAGTTTTATAAAATATAGTTTGTTTTCA
TAATTTGATTCTCAATAGCAGTAGACATATGCTGAATATGTCCAGTGTCCTAACTGCTAAATGGGAGCACTTTGCCATG
GGCCTGAGTTCTTAATTCTATTGTGTGGTTGATTCTGTGTAAGAAAATGAAGAGCAGAATCAAAAGCCACTTAGCAATG
TGCAAGCATTAGTGTATRTTTTCAAGGTGATTCGACAGTAGTTTTTCAGCTAAATGAATTTGAGCAGCTAGTTACTTTC
CCTAAAATCCATATTCTTAATGTTGAGATCTATGTTTGGATTTAAAACTGAATGTGAAATTTAATAATGTATTGTAAAT
GACTTCAGCTGTCAAGGAATTAATCTATACGTTAAGATTTAAAAATTTTTTAGGTCATAATAATTGCCTAAAATGATTC
CTTTCTTTTAAAGGCACCAGATAAGACAGGGATTTAAAAAAAAAATCTTTATTATGAAGGCCCCAGATTAGACTTTGAG
TTAATTTACAGGTTTAATAGGAGAGGTTGGTCTGTTTGGTTAAAATGAAATCTAGGTAAAGTGAGAAGATAATTTTTTC
AAAATGTAGTCATTCTAGCAATGTTTATGTCTTGTGGCTGAAAAATTAGGATATTTTTTCCTAGCCCACGACAGAGCTG
AATTGAAAAATTATTGCTGTCACACTAATTTTTAACATTAAACTTAGCTCAGCTTAAGCTGTTGCTTAAACTTTTAATG
TCCAAGCCATTCGTGTCTTCTTTAACTTATTTATTTCTAAATCAGTGCTAAGCTTACATGACTGTTATAGACAAAAAAG
GGTTAGCACAGAAAGAAAAAAAAGCTCTTGCTAAAGGTTGTAAAGTTACCCTTCTTCTTCATAACAAGGGCATGAATAA
GCCACATCCACAAAAGCTGTAAACTGAGTTGGAGCAGCTGATCGGAAGGCCCCTGTGAGTGTTGCCACACCTTCAGTCT
GAACTGGAAATGTGTACAGCTTGCATCATCTCCACTCAGTTATTTGATATTTCTTGAGTATGAATGAATGAGTCAGAAA
CATTGCTTTTCAGTTGTTAGTTTTATTACCATCCATTCTTTTTACATACACGTGTTCAAACTGATATTTTCAGTTTATT
CTCCTTTAGCCTTTGAAAAATTATGACAGTTTTCTGTGTTCTCTCTTGAGGTTTTAAAAAAATTTACTCTAATAGATTGA
AAAGCACAATAAAAACACTAGTAAGAGATCAGGATTTTTAAATGGTGATAGAGAATACTTATTATGGAGATGGATTTAG
GTATTAGGAAGGAGGAAACTGATTCCTCAAACCCATTTAACAAACTGGGTTAACACATTATTTCTGTTTCTTAGACTTC
TCAATAAAAGGCATCTTAGCCAATTAGCAGCTTTTAAATGATGCTCTAGGAGCAACTAGCTGTATTTCCTGTATTGGTA
TTATATATGTTTCTTGCTTGTTGATGGCATTGAAGCAGGAAAATTATTGAATTCTTGGCCAAGGCTAGGGTTGGCTGTA
ACACATGTAGGATGCTTGTACCAAGTAGGGTAAGAGATTCCAGATGGCATTTAATTTGAGTGATTAAATCTATGGCATT
TACCCTTATAAGCACATTAATCTGCCTGAGATTTGTACAGATTTCCTTTGGAACCTCATTGCTACAATTGAGGGTAATT
TTAGTGAGGTCTCAAAGCTTTGGAGGCAGGCAAACCTGGAAGTTGAATTATGGTTTTGTTCTTGCTAATGGAGTTACA
TTAGAGAAATGACTTCAATTTTTTTTAGCTTCAGTTTCCTTAGCATACAATGGGCACCATAATAACTATCTTGAAAAGT
CAGTGTAAGAGTTCMAAAGAATATATACAAAAGAGCTAGCTAATATAGTATCTGACAATAGTAGGCACTGTATCTGTTG
TTATTGCTATTATTTGGGTTTTAGGTCAAACTTCATTGGTTGCCTACGTGGCTAAAATGTCTTTTTACCATTCGGTTGT
AATTTATACCAGACACTTCAAGTTTGATGGATTTTTATAATTCTTAGATAACTGTCTATAGCRCACATTTCTGTATCAT
AAAAATGCTTAAATTATATTTACAGTTTTTGTGGTATAATACAGACATGAACATTCTGAAGTTCTAATTAGAAGTTTAG
GCTTTTCTTAAATTCCAGTTACAGAATGCCAGACAGAAGAGCTAACTAAGTACTTTTCCTGTTTTACTCTAAAACTGAA
AATGCAGACCTTACTAATTTTTAGAACATGTGAAATGTAATAAGGGTTAGTGGTCAATGTGCCTTTTCAGTAAAACACC
TTTTAAGCAGAATAGTTTCACCATGTTTTTGGTTACCTTTCTCTCATGGAAAGTATATTGAGGATGGGAGTCAGTAGAG
AGGAGAGCAGGACAGCGGCCTGGGCCTCAGGGCTTTCAAGGATTATGCTATGGAACCCTGTAACGTTATCCTCTTGTGA
CCTAATAATGCACATTTCACCAGGCCTTCCCTGTAAGTTCAGTGAGGTTCAAAGGAGAAAACGAATCATTTTGAGTTA
TTCCCAAGACATATCACTATAAAAATGTATTTTGTTTCTGCTCTAATTTTGGGGGCAGTTTGAGGTTTGGCATGGCTGG
AAATGACTGTGTTTCAAGCTGAAAGTCTGTCTTGAAGTTAGAATCCAGACCCCTTTCTAAGAGACTTCAGATTTTTCTAT
ACTTCATTCCAAATATACTTAGGCCAGCTTTACAAATGTGGTCATGACTTCTTTATGGAATTTATTTTGTGTATTTGGC
TTTTGGCAAACCTCTCTAGCATGTTTCTGTTGCCTATAAATTAAATTGCTTTGCTGGGTGCTTTGTCTCAGAGCTTTCT
CTGGCTGCTCCCCCTACTGCTTTGTAATAGTCAATGCAGAACATATAGTAGGACTTTTTGTTGATGTATTTTCTTCTGG
GCAAGAGGGGTGTTATAACAAATATAGGATCTTCATAGAAGTGGCTAAATCTTAAGATATTTCCACATTATGCAACTAC
AGTGTAACTCAACAGATATAAATGTTAAACTTTTGCTAAGAAGGAAACTAAGTTAATTGGAAAAGGCATGTTAGTTTTA
TAGAGAGAAAACAGCCTCAGTTGTTTTCTACATTAACATATTAAATCTTAGATTAAAAAAGTGTTAATATGCCTAAATA
CAAACTTTAAATTTCAAAAGAAAATATCTTCTATAATTATAGAAAATCAACATTTAGATGTTTTGAGTTCGATATCTGC
TTTTTCATCTACTCAATAAAGGTAGATTTGGGAAAGATTTATGTAGCTTACATGTAGTACCTTAAAGTTAATATGAAAG
ATTGAGAATCCTATAATCACTGTTAGAAAAAATACTTTCTTTGCTTTTAAGTAATAATGGAAGAGGGAAACAATTTTAA
AGGAAATTTTTCTTTCACTGAAAAGTAGAGCCCCTTGATGTTACCTTAGCATAAAACTTAGGATTAAAACAAATCTTAAC
TTGTCTCTGTTGTCATCCGTTCAGTTCCTGTGCCAGTATTTAGTGAAAGTTTAATTATTCCCAACATTTAATTATCAAA
AACTCCTAATTTTTAATTATTCAATAAATTAATCATTACTAGATAAATTTCTTTTTTTCAGTTACATTTTGACTTAATA
TTTGGGGTAGTAGTGGTAACTTCTGTCTGAGAGCATTATGAACTGTCTACGTTTTCGAAAAAAATTCCGAAACATAAGG
ATTGCCCATGATAAAAGAAGTATTTTTTCTAATGTTATGGGTAGATTAAACAAACTGGTATTTTTCTAGAGAGAAAGGA
TGATAGATAATGCTTTTGTTCAGTTTAAGAAGATTTCTGCGATAGTTACATAGACTGTAGCTATCACTTAAGATATAAA
TACATGATGGATGTGCAGTGCTGTTTATGTCATTATTTTCAGTGGATTCACAAAATATGTAGGGTTTGGTTTTCTCTTT
TTCAGCAGGAGGGACCAACTCTTTTTCTAGAACTGTAGATTGCTGGGGTTAATTTGTGATAGCGTAGCTCTAGTAGGG
GAGCAGTTTTTACATGGCTATTTGTTGTAATAGTTTAATTGACACTGTTAGTCTGAGATCTTTCTAGAATGTAGAGAGA
TCAGTAGCACTTTATTTTAATATTCACATTAGTTTTGAAAGGCATTTGAAGAAGACTTTTTTTATTCCCTGTAACAGGG
ATTGGGGGGTATGCCTTGATATTTGCTTAAACAACAAACAATTCTGCTGCGTCCATTAGGAAATTAGTTAAGTTCAGTG
ACCAACTACAATGACAATAGGTTTATTATCTTTTACTCTTAGAGAATAGTTTATCTTTTATAAAGTATTTATTATTATT

Fig. 6.332

ATTTAGTATTCAGAGCTTCTTGTTTTTGTTTTGTTATACTTTGTATGTGATAAGGATGAATGATATTTACTCCCTGGCC
TGGAGTAGGCACCAGTGATACTTACAGCAGCTTTGTACAGTGAAAAGAACATAAATGTTTT ATTAGGCAAACTTGGT
TTCAAATTCCAGCTCTGTTGTTTCCTATCTAATATTTTGGGCAATAGGCCTTACCGCTCTGGAGCTCAGTTTTTTCATT
TATAAGTGGCGATAATGAAAGGGGAAAATAAAATGAAAAAGTTATTGAGACCATTAGCTATAATGTATGTAAAGCTCCG
TTTGGTGCATTAGCACACACTGGGTGCTCAATAAATTGCATGTGCTTGCCTGTCTAGAATATACTAAAAAAGAGAGATT
AAGAAAAACTCTGTGTCACATATTTCTTGCAATGTAAAAACATAATATTTCTTAGAAGAAAAACATGACTTTTCTATTC
TTTAAGAATTTACAGTCCAAATTAATGTTGCTCAAACTTTGTCATTTTTGAGACAGAGTCTCGCTCTGTCGCCAGGCTG
GAGTACAGTGATACGATCTCAGCTCACTGCAACCTCCGCCTCCCAAGTTCAAGCAATTCTCCTGCCTCAGCCTCCCGAG
TAGCTGGACTACAGGCGCATGCCACCATGCCCAGCTAATTTTTGTATTTTGAGTAGAGATGGGGTTTCACCATGTTGGC
CAGGATGGTCTCGATCTCTTGACCTCGTGATCCTCCCTCCTCGGCCTCCCACAGTGCTGGGATTTTGTCATTTCTGTGT
ACATTCATATCTGCTATTATATGTTGAATGTTTTAACTTAATGTATTTTTTATTAATCTTTAAAATTTATTTRTCAATT
ATTCTTAATTGACAAATATTAATTGTATCTATTTCTTGGGTATAATGTGATTTTTAAAATGTGTACATCATAGAAAGAT
TTAGTAAAGCTAATTAACATATCTATATTACCTCACCAATTTATCTTTTTGTGATGAGAATGTCAAAAATCTATTTTAG
AAATTGTAAAACATATAATACGTTATTAATTACTGGGGTCTCC GCAGTGCAATAGATCACTAAAACTTATTCCTCCA
ATCTAACTGAAATTTTGTACTGTTTGATCGACATCTTCCATTTCTCTCTCCCTCCTCCTCTACAGCCTCTGGTAACCCA
CCTTTCTACTCTCTGTTTCTGAGATCGACTTTTCTAGATTCCCCATAAAGTGAGATCATTTATTAAAGACAATATTTGT
CTTTCTGTGCCTGACTTATCTCACTTAGCATAATGTCCTGTAGTTCCATTCCATGATGTTGTGAATGACAGAATTTCTT
TCTTTTATAAGGCTGTGTAATCTTTCTTTTTTTTTTTTTTTTTTTTTTTTTGAGGTGGAGTCTCGCTTTGTAGCCCAGG
CTGGAGTGCAGTGGTGTGATCTCGGCTCACTGCAAGCTCCGCCTCCCAGGTTCATGCCATTCTCCTGCCTCAGCCTCCT
GAGTAGCTGGGACTACAGGCGCCCGCTACCACGCCCCACTAATTTTTTGTATTTTTAAGTAGAGATGGGGTTTTACTAT
GTTAGCCAGGATGGTCTCGATCTCCTGACCTTGTGATCKGCCCGCCTCGGCCTCCCAAAGTGCTGGGATTACAGATCTG
AGCCACTGCGCCCGGCCTGTATAATCTATATATATATATATATATATATAATATATATATATATATATATATATATATA
TCACATTTTCTTTATGCACACTTGATGAACACTTAGATTGCTTCCATATCTTGGCTGTTGTAAATAAAGCTGAAATGAA
TATGGGAGTGCAAATATCTTTTTGATGTACCAATTTCAGTTCCTTTGGGTGTATACCTAGAAGTAGGATTGTTGGATTT
TATGGTAGTTCTATTTTTAGATTTTTGAGGAACCTTCATACTATTTTCAATAATGGTGGTTCTAATTTACATTCCCACC
AACAGTGTAGAAGGGCTCCCTTTTCTCCACATCCTTGCCAACACTTGTTATCATTCATCTGTTTGAACATAGCCATTGT
ACATGGTGGAGAGCAACACATACTGGGGTCTGTTGGCGGGTGGGATGGGTGCAGGGAGAGCATCAGGAAGAATGGCTAG
TGGATGCTGGGCTTAGTGCCTAGGTGATGGGATGATACGTGAAGCAAACATGGCACATGTTTACCTATGTAACAAACCT
GCACATCCTGCACATCCTGCACATGTACCCCTGAACTTAAAAGTTGAAGAGAAAAAAAAGGAAAATAGTCATTCTAACA
GGCATGAGGTGATAGCTCATTGTGGTTTTAATTGCATTTCCCTGAGAATTAGAGATATTGTTGAGTTTTCGTTTGTTTT
TGAGACAGGGTCTTGCTCTTTTGTTCAGGCTGGAGTGCAGTGGCGTGATCATGTCTCACTGTAACCTCAAATTCTCGGG
CTCAATGATCCTGCCTCAGCCTCCCAAGTAGCCAGGACTACAGGTGTGTGCCACCATACCTGGCTTTTTATTTTTTCGT
ATAGAGAGGGTCTTGCTATTTTGCCCAGGCTTGTCTAGAATTCCTGGCCTCAAGTGATCTCCTGCCTCAGCCTCCCAAA
GCACTGGGATTMCRGGCATGAGCCACTGTGCAGGGCTGGGGAACATTGTTTTTTTTTTTTTTTTTTTTTTTTTGTATCT
CTGTTGGCCATTCATATTTCTTTTTTGAGGAAAGTGTGTCTATTCAGATCCTTTGTCTAATTTTAATCGATTTGTTTTC
TTACTATTTGGTTGTTTGAATTTTTTATATATTTTGAATATTAGCCTCTTATCAGATGTATGGTTTGCAGATATTTTCT
CCTGATCCATGGGTTGTCTTTTCACTCTATTATTTGGTTGCTTGTGCAGGTACTTTTTAGTTTAATGTAGTCCTATTTG
TCTATTTTTGTTTTAGTTGCCTGTGCTTTTGGAGTCCTATCCAAGAAATCATTGCCCAGACCATTGTTGTGGAGATTTT
CCCTTATATTTTCTTCTAGTAGCTTTACAGTTTCAGGTCTTATGTTTAAGCCTTTATATCTCTTTTGAGTTGATTTTTA
TATGGAGTGTGAGATAAGAGTACAGTTTCTTTCTTCTGCAGGTGGACATCCAGTTTTCCCAACACTATTTGAAGAGACT
GTCCTCTCTCCATTGTGTGTTCTTGGACCCTTTGTCAAAAATCAATTGACTGTAAATACTTGGATTTACTTCTGGGCTT
TCTATCCTGTTCCATTGGTTGATGTTTGTTTTTATGTCAATAACATGCTGTTTTGATTACAGTAGCTTTATAATATATT
TTGAAATGAGGGAATATGATGCCTGCAGCTTTGTTCTTTTTGTTCAAGATTGCTTTGGCTATTAGGTCTTTTTTTGGTT
CATATAAATTTTAAGATTTTTTTCTCTATTTCTGTGAAAAAAAAAAGACATTGGAATTTTGAAAGGAATTGCATTGAAT
CAATAGAGGAACTGCATTGAATCTATAGATGGCTTTGGATAGTGTGGACATTTTAACATTACTAATTCTTTCAGTGCAT
GAACATGGGATATCTTTTCATTTATTTCTGTCTTCTTCAGTTGTGTTTAAATCAATGTCTTGTAGTTTCCAGTGTATAGAT
CTTTCACCTTGTTGGTTAGATTTGCTCCTAAGTTTTTTGTTTTTTTTTTTTTTTTTGTGATGGAGTCTCGCTCTGTTGCC
CAGGCTAGAGTGCAGTGGCGCGATCTCGGCTTACTGCAAGCTCCACCTCCCAGGTTCACGCCGTTCTCCTGCCTCAGCC
TCCCAATTAGCTGGGACTACAGGCGCCTGCCACCACACCTGCCTTTTTTTTTTTTTGTATTTTAAGTAGAGAYGGGGT
TTCACTGTGTTAGCCAGGATGGTCTCGATCTCCTGACCTCATGATCTGCCCGCCTCGGCCTCCCAAAGTGCTGGGATTA
CAGGAGTGAGCCACCACGCCTGGCTGCTCCTAAGTATTTTTTTGATGCTATTGCAAATGGGATTATTTTCTTAATTTCT
TTTTTGGATAATTTATTGTCAAAGTATAGAAATGCTAAGAGCAACTTATTGTTAAATCTAAATACTCACCCAAGTGCCT
CATCTTAAGTAATGGTATACATGAAATCATAGGTTTGATGTTCAAGTTATATTTTTTCTGTATTTTTTCTAAAATTAAT
GAATAACAAAATGAGAAAACATTCATCTTGCACCACCTTAAAGCATTTTGCCTACCATTTACTAACACTGGGCATACTT
TTGGACACACTAGTCTAAATCAGCTGCAAGAACAATTTAGAGACTAATTTATTGTTTTAAACAATCAACATTTTTCCTT
CTTTACCCTCAGTTGGATTTCTCCACTAGAGGAGAAAATGGCAAATTCGTTCAGCAGAAATATTCCAATTCATAAAATA
TTCATTCCTTAGGCAGAATGGTCCGTGGATTTAGAGCACCCTACTATAGACAGCCTGCCTGAATTGGATTCATTCTCTG
CCTTTTACCAAACGTAAATTGGGCCAYGTTGCCTTCTGTGCTTCAGTTTTCTCATCTGTTAAATAGTTGCTGTGGTGAT
TTAATGAATTAAAAGATGGGAATTGTCTCGACTGAGTCAGGAATCATACTAGATACTCAGTAGAACTCATTCATTTCCA
TATGTGAAGGAATAACATTAGTTTTTATTTTATTATTTTGGGGGGTGAGGGTTAGAGAAGGGTGTCTGCCATCCTGATT

Fig. 6.338

TCTATCCTTTTGATAAAGTGACCTAATAATATTGATACTAACCAAAGAGGACTATTATAATGTTTTATTTACTCTTCTC
CCCCATTAATCACTTTTTTTGGTGGTGTTTTATATGTTTTATTCCTTTATTTTCATCCTTCAAGGAGTTTGCCCTTTGT
TTCCTTCTGTAATTTTACAGTATAGCTCATCAAGCAAGCCTGAGATTTTTGTCAGAATATCTGAAAATCTCTGAGCTTT
TTCTAGCAGAAATGCATAATGCAGTGCAGAAGAATAGTCTAGCCAGTGTTTTTCATAAATGAATGTACATACGTTCTTC
CTCTGCATAAGACTGAAAGTAACCCAGGCACACAATATCTTATTAATATTTAATATTAAGAAAAGTATATTAAGAAGGT
AACTCTCCATTCTACCTCTCAACATCTTACCATCTAGTATACACACAAATATTTCCTTGCTCTATCAGCCGAGAGGGTC
TAGAAGCTACCATACCCCAGTAGCAATGAGCACACTTAGCACCCTCATTTTGGTTTCTAATACCATTCTCTGGTAAAAG
GAACCAAGACTCTTTGAAAAAAAATAGCTGATTTCTAGGGACTCAGGAAGGAAATATGTAAGATGAGCCTGGAGCATCT
TGTAGTGCCAAAAAGTAAGGACCTGCTCAAACAAATGGAACCCTACACCCGTGGGAATATACTGAAGAGTTGCAAGAGC
AAACTGAAAGAGCTCCCAATGGCCAAAGCTAGAACAATTTGAGCAAGAAAATAATATAGTATTGGATTATATCCCAAAG
GGTAAAATAAATATCCATAAACCCATATTGATACAATTTATTAAATAAATACCTAAGTGGGGGAAAATAGACAAATCTC
CTCCTGTGCGGAATTCCCAATAACTTCTATAGATACTCTACTCTCAAGGAGGGAGAACATAACCCCCTACACCGTAAGT
GTGAGCTGTGCATATTGACTTCCTTCTAAACAGTACAGTGTAGAAAGGGAAAAAAAAGAAACTGTAGTGGAGAAWCCTA
TCACTACTTCAGCCAGGTTATCAAGGTCAACATTGACAGTGATAAGTGATAACATGTACCCTCGATATGATCTGATGAA
AATGGCACTTTTAATCTGTGGTTTCCCTACTGAAAACATATAACCCCAGTGTAATCATGAGGCAAATACCAGACAGATC
TCAGTTGAGGGATATTCTACCCTCGAAACTTGACCAGTATTTGACCAGTACTCCTCAAAACTGTCAAGGTTATCAAAAA
CAAGGAAAACCTGAGATACCTACAGCCAAGAAGAGCCTCAGGAGACATGAGGACTAAATATTATGTGGTATCCTGGATG
GGATCCAGAACAGAAAAAAGGAAATTACGTGAAAACTAAGGAAATCTGAATGAAGTGTGGACTTTGTTTAATAATAATG
TATCAGTATTGGTTCAATAATTGTGACAAATGTGCCATACTAAAGTCAGACATTAAAAATGGGAAACAGTGTAGAGTAT
ATAGGAATTATCTGTAATGTCTACACAAGTTTTCTGTAAATCTAGATCTGTTCTAAAACAAAAAGTTTTATTTAAAAGA
TCGAAGCCATCTTTTAAGGCCTATCTGGAATGTTACATCCTTTATAAAGCCTTTTTTTTAATCCCATCTTCTTCCCAT
CCTATATCTGGGGTGTCCTATGTCTCCCACCTCAGGCTTTCCTAATTGGATACCTTTGACTTTCCACAGAACTTTTATT
TGTAATTCTCTTAACTCTTAGTACAATATTTGTGTCTCTGTTTTATTGTTCTGATGAGGTCTTCTACGGTGTTTTTAG
CCCAACCCAGTGAGTGTCTGGTGCCTTAGACCACTTGGCCATCCTGACACCCTACACAGTGAGTGTCAATATAACATTT
TGTAGTTAGTCACATAAATTAGTACAAGAATGCATGATGTTGGTTAATGCAAATGCTGTTTTTTACCTTGTATTGGTAG
ATGGAGAGTCTGAGCATTCTACTTTGTGCCTTTCAAGAAAGGTTTTTTTCTTTTTCTTTCAGTGACAGGAATCCTGAGC
ATTTCTCACTTAATCTCAGTTCTGCTTTTAGATACTCATGTCTCAGAAATTTTATCATAGTATATGCTAGATCAATCTC
ATCTCGTTTAAATTAAAAGTTTGTAGTGCACAGGCAAAAACCATAGAGGCCATATTCATGGTCATAAACTGCTCTTTCT
CATCTCTACCTATTTTAGCAATAACATTCTTCTTATTAGTTTGTTCCAAGTGAAAATGACATAACTGAATACTTTCCCT
GCTAGTCTGGGAAGAAAGGATGTGTTTGTTGGCTTTTGCCTGTCAGAGAGTATTCTGCAATGTTTGCCTAGGGCATGCT
TGCATTCCCATCAGCATCTCTGGTCTGCTGCACTGTAATCCCTATAGGGACAGCCTCTGGCTTTTATTACTGACAAGCA
GTGCACTGTGCAGCCATAGGCACCATAATAGGAAACACCTTGGCCTGTCATAAACAGGTCTGGAGAGTAGAAAGTACAG
GCCTGCTGGGGATGTGTCCATAGCAAAGAGGCAAAGATGCGGCTGCCATATTGGAGTAAGTGCAGGCTAATGTCTGCCA
TCTCCATTTCAGAAAATAACTGGCTGATTTTGAAGCTGCTTTTTGTATAAACAGTAGTGTTTTGGTTGCTTTTTGTTTT
TGGCTTAAATATGAATAAAGCCATCTTAAAGAGATTATACCCTTCAAAGTATTTTGAGAAGATCTATAAAGTATTTTCC
TTTTGTTATTTTACATTTAATTCTACCTGATCATTCCAATCCAAACCCAATAGAGAAGGAAAAACAGATATTTCACTAT
AGTGGGAAATTAGGAAAAAAAGAACCATGCAAAAATACAAGTGATTGTGTGTCTTTTAAAAGAATTACAAATCACACTG
AATTACCCAAAATTACAAAGAAAAGTGCATTTATTATTAAGGTAACTTGTGTTGTCTGTGCCTTTACATCAACTCCAAG
TTTTATAAAAGGAGTACATTCTTTGACCATAAAGACTTTATATTTGTTAGTGTTTTTTTCAATCTTTAGGGAAAAAAATG
AACTGCAATATTAATGATAGGCTTTGTAGCAAGAATTTAGGAAGACAATAAATTTCAAAATTGGAAGGGTTATCACAGT
TTTTAATAAAGAGATAAAATTATTTCATGAGTGCTTTAAATATATATAGGTGTCATTTTATTATTTACAAGGAAACCCA
TTTCACAAAAGAGGCTAAAGACTGTAAAGATTGAACAAAGCTATAATCCTGTTAAAAATTAAGATAGGTTTAGGAAAAC
TAAAGTCCTAATTTTTTTTTTTTGACCACTTTGGCCAGAGCTGTTCATAAATTAGGTAATCAATRTTTGTTGACTAGTC
CCCTCCCTTGTTAAAAACTAAACACTTGTCCTCTTGTATCTTTTTTAAAAAAATATTTCAAGTAAGTTTCAACAGTATG
CTGTGATAAGGATGAAACCTATTAACATTATCCTTGGTATATATTTTGATTTTCTGTTGTTTTCTTAATCTTATATTGT
CAGTATGGTTTCTAAGATCTAAGATCTCCATAAGGGTAAGTGATAATTGGGTTTTGATAAATCATAAGGAATCTTCTAC
TAGAAATATGTCTGTTTATTTATTGTACATCAGGAAAMGATTAGTTTACTTTATGCCAGAAGATAATGTTTGGGCCTAA
ATCTTAATTTTTCTATCTAGTGTTAATACAGTAGAATGCCTAAAGGATATATAGAAGAAAAGACAAAAAAAGAAGATGA
AGAGAATGCATCATTACAGACTGAATCATCAGTCCCTACAGAAGGGGAATTTGTTCTTTCAAAAGTAGAATTTCAGCAG
CCGGGCGTGGTGCCTCAAGCCTGTAATCCCAGCACTTTGGGAGGCAGAGGAGAGCAGATCACGCGGTCAGGAGTTAGAG
ACTAGCTGGCCAACATGGTGAAATCCCGTCTCTCCTAAAAATACAAAAATTAGCCAGGTGTGATGGTGCATGTCTGTAA
TCTCAGCTACTCGGGAGGCTGAGCAGGAGAATCACTTGAACCCAGGAGGCAGAGGTTGCAGTGAGCCAAGATCGTGCCA
CTGCACTCCAGCCTGGGTGACAGAGCAAGACTCTGTCTCAAAAAAAAAAAAAAAAAAAGTAGAATTCAGCTGGGCATGGT
GGCTCACACCTGTAATCCCAGCACTTTGGGAGGTCGATCACATGAGGCCAGAAGTTTGAGACCAGCCTGGCCAACATGG
CAAAACCTGGCCTGTACTAAAAATACAAAAATTAGCCAGGTGTGGTGGTGCATGTCTGTTATCTCAGCTACTCGGGAGG
CTGAGCAGGAGAATCACTTGAACCCAGGAGGTAGAGGTTGCAGTGAATGGAGATGGCGCCACTGCACTCCAGTCTGGGC
GACTGAGTGAGACTCCATCTCAAAAAAAAAAAAAAAAAAAGTAGAATTCATGGGAAAAATTATTTGTTGCTATTTAGCC
TTATTTTTAAATATTTCAGTATATTGTCTGTTTGATACATATGAACAATCTGACTACAACTCATTGGGAAACACCAGTA
TTTACCTTACCTTCTAATGTAAGGCATGATTCCAGGTATTTTCTCATACCTCAAACCTTAAATCTCTAATTTAGTCCCA
GAAACAGTATTCTACATGTCAAAACGTTTTTTGTTTTGTTTTGTTTTTGGAGACAAGTTCTCACCTTGTCAACCAGGCT

Fig. 6.339

GGAGTGCAGTGGCGCCATCATGGCTTACTGCAGCCTTGATCTCCCTGGCTCAAGCCATCCTCCCACCTCAGCCTCCTGA
GTGGATGGAGCCACAGGCATGTGCCACCAGACCGGCTTTTCTGTTTTTAATTTAATTTAACTTTTTTTTTTTTTTTT
GTAGAGACAGGGTCTCACTATGTTACCCAGGCTGGTCTCAAACTCCTGGGCTCAAGTGATCCTCCTGCCTTGGCCTCCC
AAAGTGCATGAGCCAGTGCACCCAGCCTCAGAATATTTTTAAAGATGAAAACCTAATGCTCAGTTAAACTTTTATAAGA
TCTATGTGCTTCTAAATAAGTGTAAAGATGACTATTTTCTGGATGTTGTATTGGTGGGGAAGATGGAGAGATAGAAGAA
CAAGTGTTTATTCTCTGGTTGTATTTTCTCTCTCTCTCTTTTTTTTTTTTTCCTTGAGTTAGAGTCTTGCACTGTTGC
CTGGACTGGAGTGCAATGGCGTGATCTAGGCTCACTGCAACCTTCTCCTCCCAGGTTCAAGCAATTCTCCTGCCTCAGC
TTCCCAAGCAGCTGGGATTACAGGCGCCTGCCACCACGCCTGGCTAATTTTTTGTATTTTTAGTAGAGACAGGGTTTCA
CTATGTTGGCCAGGCTGGTCTCGAACTCCTGACCTCGTAATCTGCCCACCTTGGCCCGCCAAAGTGTTGGGATTACAGG
CGTAAGCCACTGTGCCCGACCTCTGGTTGTATTTTCAAAATATATCCAAATAATATTTTAAAAATGTATTTAGTGAGCA
CTAGATTCCAAAATAGCAAGAGCAATTTCAGCAAAGTATAATTCCTAGAGAGGAATCCTACAGTACCTCGTTTTGCCTT
TTTTGTTCTCTAGGTCATGTCAGGATGGGAGCATAACTGACCTGGCCCTAGTTCCTAGGAGGAGCATGTGCCCTCTAAC
ATGTGCACAGAAGGATAATAGGGTCAGTGGGATGAGGAGACCAAGTGACTAAAGCAGATSTGAGAATCTGAGCTGTAAA
GGATTTGGAGGTGGGATGGAGGGATAAAACCTTAGTGGGAAGCAGACAGCAGATAGAGAAGATATAGGATAAACTCACG
GAAGGTGTAAGCAGGTTCATGATTTTAAAATTAGCCTRTTAAGAGGTTGTGTTGGAGGTCTGTTTTCTTAGTGGGGGCA
AAGTGGCAAGGGAAGTTTCACTTCTGAATAGGGTGGAAAATGAAGATATAAGGAAAGAAAGAGAGAAAGAGGAAAGACG
TATTAGGCAGTGTGAGGCAGAGAAAGAGAAGAGTGGGAGAAGGAGGGGAGTCAGACTTTCCTTGGCTGGAGGCAAACTG
ACCAATGCCCGTTGCTGCCCCTTTCCACCGCAGGGTTCATTTGGTGAAACCTGGTTGGACTGAACCTTTAGGAGAACCT
TGAAGTAAAAAAGAAATCCCAGACAGGTCAGTGGCGGATGTAAATGTTTAAGGAAGAACAGACAGTCAGCTGTAGAAAT
GGAGGGAGGGGTAGAGCTGACTGGAGAGCGATTTATGGATGGTATATTTCATGAGGCTTGAGTCTTTTTTAGCACTAAT
AGTTGGCGTCAGCTTCACCTGTTGCCTCCATGAGTCATGCCCTGGTAGCAGAGGATGGTGGGCCAACTGCCAAGCCATC
CCCTGAAGGACCGGCTGCCTGGGAGTGAGGAAAGGTGGTTGATGGGCTCTGAGACAGCAAGGTACAAACTGAAATGGGG
TGAAAAGAGACTGTCAAAATAAGTATGGGCTGATTTGTTCTAATATATCATAGGTTATTATTAGATGCTGGAAGAGTAA
AATGGAATAGAAGATGAAAAATGTGAACCTTTATCTTGATTCCATTTTAAATCTCCTAAATTCTGAGGAGCTTTGCAAT
TCCTCTTCTGGATATAAATCTGCCCTACAGTAGAGTTGCAACCTTGGATAAATAAATAAATTTGGCCTCCCTGAGCCTC
TGTTTTCCCTGTAAATCAGGACTAACATAATCTACCTCAAAGGATTGTGTTGAAAATTAAGTGAAAACTTACATAAATT
ATGTAGTGTGGTGGGGACATATGATAGGTACTGTGGCCTATCCTTAGGAGGGATGAGGAATGGAACTATTTTTAAACAT
AAAAGGTCAACTTTATATGCTGCCATATAAGTAACCCAGTGCAATTGGAGCTTGAATCAACAGGGCTGGGAGAAAGCTT
ACAGAGTGTGCCTTTGAAATCCCAATACCCAGTCATGGTGATTTATGAGACCTTACCAGCTTGCATATGTGATGGCCCA
CTGAGTTTGTTTACTTTAGTTTTAGCTCAGTTACCCAGCACTCTATGATAGCCTATTTTTTATTTACACTCTCACTAAC
TCCTTTATTATGATTTCTTTGAAAGAATATGAAGACAGCCATAAAAAAGACTCTTATTGAAGTTGAGAGGGTCTCCTGT
AGGTCTTCACTTCACTGTGTCTAAACATTGGTCTGTTGCTTGTGCTTTGCTTTTCTCTCACCCTGGATGACCTTCAAGG
CTCTTCCAAATGATTTCTCTGATTCCCTGAAATACTGAAATTGTGATTAACAGAAGTTTCAAGTGTTAATCAATATCAA
GATAGTAGTTGTCTCTTCCTGGGGAAACTAGAAATGAAAACCAAACATAGGCCTCTGTAATCATTGCACAGATTAAAAA
TGAAAATGCAGCTGAGAAACAGAGGAATGAATGAGAAAACCCTAAACCTAGTTCTAGCCCCAGGATGAGGTCTTTGTCA
TGAGTCTGACGCTAGCCACAGCCGGTAAGAGAAGGAATTCCCTAGTAGTGTAGTTGTTACAAGGGAATGAGTCATTTTG
CAGGTAATTGTTCTTCTTCCATTTTCCACTTGCTGTCAGCCACTTTACAGAGGAGTCGGACTTTGTTCTGCTTAAGAGA
AGTCTCTTTCCTTTTATTGTTTAAAAAAAAAAAAAAATTCCAGAAGCCCTTAGAAAGAGATTTGTGAGATCAACTGGTT
TACCTTCTTCATTCAGATGAAGTAACAAAGCACAGAAAAGTTATTTTGTCAAGGTTTCTGTCTTGTAGCAAATACAAAC
TTTCTGGTGTTAAACATATGACCCTGATTTGGGTCTTTACTGACATCATCACTTTTTTTTTTTTAATTTTCTGAGACGG
AGTCTTGCTCTGTTGCCCAAGCTGGAGTGCAGTAGCACAATCTCGGCTCACTGCCACCTCCACCTCCTGGATTCAAGTG
ATTCTCCTGCCTCAGCCTCCTGAGTAGTGGGTATAACAGGTGCATGACCACGCCCAGCTGTTTTTTGTGTTTTTAGTAG
AGATGGGGTTTCACCATGTTGGCCAGGCTGGTCTCAAACTCCTGGCCTCAAGTGATCTGCCCACCTCAGCTTTCCAAAG
TGCTGGGATTACAGGTGTGAGTCACCACACCCGGCCAACATCATCACTTTTGAATGAAATTTTTAGTTTGGTGATGACT
TTATTATTTGTATTTGATCCTTGTCCATTTTTCTCTAGATCTGGTACTAATTTCATGTGGAAAATAAATCGTTAGGAGG
TTTTCATTTTGTACGTTTTGGCTGCAAACAACCACAACCCAGTCTTTAGGTTTTCACTGAGGGATTTTTGTTTTAGCCC
AATTATTGTATGACATGTATCTGCTCCAGAGGTTCTTATAGGTGAAATGAGATTTTTATGTATCTGTATTCAAACACAT
AGATAGATAGATAGATAGATAGATAGATAGATAGATAGCGAAACATATAGACATACCTCTGAAAATACAACCAGCCATA
TAATGTAAGCCTGTTGTGTGTTAATGAATGATAGGGTAATAATACATTATGTTCCTGTCCTGTAGAGGAGTTCGAGTAT
TCAATACAGAGGACCAGAATGATTGGTCCCAGAAAAAGTGCTCCTTAAGCTGGATCTTGAATACTGAGGATTTATATAG
GCATCTAATAGGGAAGAGGTGGTATTCCAGGGGCTGGATAAGGCAGGGTAGGATGGGGTATTCATGTGGATTCGCTTTA
TTGTATGTTTGCTGGAGAGGAGGGTAGTGGGCATTCTGGAGGAGTGAGCCTCTCTGGAACAGAGGATGTGATTATAGGA
CCAGTGGCAGGTGTGAGAAATGTAGATTGAGGCCATACTGCAGACTGTCTTAAATGCCAGGTCAAGCCATTTGCACATT
GTCCTATAATTCATGAAGAACCCTTACATTTGACTATAAGGAAAATATTATGAAGAAACTAAAATAAGGTGACTTTAGA
AGGTTATATCTGGTGGTAGTGTGCAGGATAGATTATATCAAGGGGAAATTGTACTGAAAGCAAGAAGAAACCGTTAGGR
AATTAGGTGTAAGAGTGATAAGGGCCTGAAATAGGATAGTGATGAAAAGAGAGGAATGAGTAGGAGAAAGATTGCACAG
AGAAGGGTGACAGCATACATAAGACTTGGCAGGACCACAGCCAGAAGAAAGCATGAAATTCTAAACCTGAATAATGGAC
AGAATTATAGTTGGAAAATCATGAAGAGAAGCCAGTTGGGTATTGGGGGAGGGCTGGACAATATGACAGTTAAGTTTTT
AGACATATAATTTAGGTAAGGCTATGTATCTAAGCGGAAATGCCCTATAAGCTTTCAGTTGTCAGGACTGGATTTCTGG
TTAAAAAAAAAAAAAAAAAAGAGGGGGCAGGATTTTACTTGGGTGTTGTCTGCAAAGTTGATAGCTAAGACCTTAAGGCT

Fig. 6.340

CATCTGTGAAACGGGAGTGACAGTGCTCATTAAAGGTTATTATTAGAAATAAATGAAGTAATTCCAGGAGAGTACATAG
GACTCTCCTTGACACATAGTAGACCCTCAATAAACATTAGGTTTTATTATTGTTTATTATGGGTTTTAGGGAACAACAC
TTTTGTGAATTATTAGAACCTTATTTGGGAAGCTATAAAAGCCATCTGCGTGATGTGTTTTCTTAGTACACCAAATGGA
AGTTCATATGTTCCATTCATATACATGCTTCCCTAGCTGTTAGGGGAAGGTGATAGCGCATGTTTAACTGTTGATCACT
GTTTGTAAGGCTTTTCGTGTTTTTTACATATTTGGTTAAGGATCTTAATCCTTGAGCTGTATTTTGTTCTCATTTGTTT
GTGTCCAGAGTCAAATTAAGTTTAAGGAATTTATAAAGAGCTTCTTTGCAAGAATGATATTAACTCAATGTACTAAAGC
TACATTCACCCAAAGTGTAATAGACTTACACAACATGGAAGAAATCCAGGAGAGGCAGACAGTTATTCATGAAGAGTGG
TAGTATTCCTGTCTGCCTGTCTGTACATTTGTCAGATCAGTGCATTCTGAGAAAATTATGCCAATTTGAAATCTCCAAA
AGCATTCTCAGCCAGTATCCGTGATTCTGATAGTTTACAAACTGTTGATAGCATAAGCTGTTAGGAAGATATTGTAGAA
ATTTTAATGCAGCTGTTTTAATTAGATTGCTTTCCTTATAACAAGTTTCAGTGTTTCTGGTCACAATACAATTTATTAG
CTCCTGACACATGACACTGCTGGATCACCAACCTTAACTCTGATTCTCTCCATACAACCCAGTATCCTTAAGTAAAATG
CTGCATATTTCATTGCTGGTAAGAGAGGCAGGGCCAAGATTCGAACTCACATGAAGCCAACTAGAGAAGCCTATGCTCT
ACACTATTTTACATCTCATAATTCTCATACACTACTAACCTGTTGCAAATGAAAAAGAAGTCTTATTATTGTACCACTT
TTAATTGCACTTATTATTGCCTTCAGTAAAGTCTTCATTTCTAAAATGTCTTAGTAAAACAGTAATTTCATAAAAATAT
TGCCAACTAGGAGTACTAAATTCTAATTTTGGTTATATTATGCGGCCTTGGATAAGGAAGTTTCTTAGGCTTTCATATT
CCAAATTATTGGACTATTCTAAAAACATTTTTAAGTATTTTGATGGATGTAGTCTATTCTAATATAATGTCTTTCAAGT
GTTTGAAAGTTACTACTTATTCAAAACTCAACTGTCTGGCAGCTTTTCTTATCCTGAACTCTGTGAAGAACTTCGGGGA
CAGGAGGTAAAATGTCTTTGAAGAGTAAGAAATCCAAAACTTCATGTATTTACATGTTCTGGTCTTGTCTCATAGGATT
CTTCTTTCTCCTTACATACCCTCCTTTAAATCCGTACCTCCCCCGGTCTTCTCCATCTTGCAAATGGCACCAATGTCCA
TCCTAGACATTGATCATCCCAGAAGTCTAGGAGTTGATTCTTCTCATTTCTTCAGTTCTGTTGTGCAAGTCTTCAAGTC
TTGTCAGTTTTGCCTCAAGCACTTTTACAAACTATCCTCTACAGAGACAGCTTTACAAAATGTAAATCACATCCTATCA
TTCCCTGCTCAGAACCTTCTAATGGTATCCTCACACCCTCTGGAAGGCTCATACCCTCAGGACCCACGTGATGTTGCCT
TGACTTGCCTCGGCTCTCATTCCGTAGACCTGTCCTCCCTCAGACTGGCTGTGTTACTCAGCCTTTGTTGAGAGTGCTG
TGCCCCAAATCTGGTTGGCTTATTCTAGGCATTCGAGTCTCTTCCCAAATACCACCTTCTCAAGTGCAGCTTTTCCTTA
CTACTTAATTTTATAGTCCCCCATCAATGTACGATGTTACCCTCTTTTCCTTCATTGAGAGTGTTTGTAATTTTTTTT
GTCTGCTTRTTTATTGTCTTTTTGCCCCATAAGTCCAAGGTTTACATGAACAGGGAACTTGTCTGTTTTGTTTATTACT
GTATCCCCTATGCTGGCACATACTATGTAATAAGTGTTTGTTGAGTGCATGAGTGAATAACCATTCTAAAAAACTCTGA
TGTTTAAAGCCCTTTGCTTTATATAAGAATTTTACTTGGAACCCTGGTATTTTYGTTTGTATTTGTTTGTTAATAAATG
TCAAGAGTTCAGTAGTAAGATAGGTTTCAGAAATGCTAAGTTAAACAGAATAAAGAAAGAATATGTATTACAGGTCCTG
GCAGAGCCTTGAATATGCTAACATTTGACAGTGGGAGTCTTTGAGAATTATCACATGAAGCTGCTGTACATTACAACAC
ATTCTAGGAAATGCTGTCTTAGACAAAAACCTGTCATATTAGAATTGGGGTAAGGGGCACGATACTGACCGTGAGGCAG
CAGATTCCTATGGACTACATTAAAAAAAAAAAAAAAAAAAAAAGAACAGACTGATAATCTAGGGCTCAGAAAAAAAAAAA
AACTGTGATATGAAACAGTGGCAAAAGGATTCAAAAAGAATACAGCGGTTGGGACTATCTACTTTTTTAATTTTTTTAT
TACACTTTAAGTTCTAGGGTACATGTGCACAATGTGCAGGTTTGTTACATATGTATACATGTGCCATGTTGGTGTGCTG
CACCCATTAACTCGTCATTTACATTAGGTATATCTCCTAATGCTATCCCTCCCACTCCCCTCACCCCACAACAGGCCCC
AGTGTGTGATGTTCCCCCATCCTGTGTCCAAGTGTTCTCATTGTTCAATTCCCACCTATGAGTGAGAACATGCGGTGTT
TGGTTTTCTGTCCTTGCAACAGTTTGCTCAGAATGATGGCTTCCAGTTTCATCCATGTCCCTACAAAGGACATGATGAA
CTCATCCTTTTTTATGGCTGCATAGTATTCCATGGTGTGTATGTGCCACATTTTCTTAATCCAGTCTATCATTGGTGGA
CATTTGGGTTGGTTCCAAGTCTTTGCTATCCTGAATAGTGCTGCAGTAAACATACATGTGAATGTGTCTTTATAGCAGC
ATGATTTATAATCCTTTGGATATATATCCAGTAATGGGATGGCTGGGTCAAATGGTATTTCTAGTTCTAGACCTTTGAG
GAATTGCCACACTGTCTTCCACAATGGTTGAACTACTTTACAGTCCCACCAACAGTGTAAAAGTGTTCCTATTTCTTCA
CATCCTCTCCAGCACCTGTTGTTTCCTGACTTTTTAATGATTGCCATTCTAACTGGTGTGAGATGGTATCTCATTGTGG
TTTTGATTTGCATTTCTCTGATGGCCAGTCATGATGAGCATTTTTTCACGTGTCTGTTGGCTGCATAAATGTCTTCTTT
TGAGAAGTGTCTGTTCATATACTTCACCCACTTTTTGATGGGGTTGTTTGATTTTTTCTTGTAAATTTGTTTAAGTTCT
TTGTAGATTCTGGATATTAGCCCTTTGTCAGATGGATAGATAGCAAAAATTTTCTCCCATTCTGTAGGTTGCCTGTTCA
CTCTGATGGTAGTTTCTTTTGCTGTGCAGAAGCTCTTTAGTTTAATTAGATCCCATTTGTCAATTTTGGCTCTTGTTGC
CATTGCTTTTGGTGTTTCAGACATGAAGTCCTTGCCCATGCCTATGTCCTGAATGGTATTGCTTAGGTTTTCTTCTAGG
GTTTTTATGGTTTTAGGACTAACATGTAAGTCTTTAATCCGTCTTGAATTAATTTTTGTATAAAGTGTAAGGAAGGGAT
CCAGTTTCAGCTTTCTACATATGGCTAGCCAGTTTTCCCAGCACCATTTATTAAATAGGGAATCCTTTCCCCATTTCTT
GTTTTTGTCAGGTTTGTCAAAGATCAGATGGTTGTAGACATGTGGTATTATTTCTGAGGGCTCTATTCTGTTCCATTGG
CCTATATCTCTGTTCTTGTACCAGTACCATGCTATTTTGGTTACTGTAGCCTTGTAGTATAGTTTGAAGTCAGGTAGCA
TGATGCCTCCAGCTTTGTTCTTTTTGCTTAGGATTGTCTTGGCAATGCGGGCTCTTTTTTGGTTCCATATGAACTTTAA
AGTAGTTTTTCCAATTCTGTGAAGAAAGTCATTGGTAGATTGATGGGGATGGCATTGAATCTATAAATTACCTTGGGCA
GTATGGCCATTTTCATGATATTGATTCTTCCTATCTATAAGCTTTGTGTCCTCTTTTATTTTGTTGAGCAGTGGTTTGT
AATTCTCCCTGAAAAGGTCCTTCACATCCCTTGTAAGTTGGATTCCTTGGTATTTTATTCTCTTTGAAGTAATTGTGAA
TGGGTGTTCACTCATGATTTGGCTGTTTGTCTGTTATTGGTGTATAGGAATGCTTGTGATTTTTGCACATTGGTTTTGT
ATCTTGAGACTTTGCTGAAGTTGTTTATCAGCTTAAGGAGATTTTGGGCTGAGATGATGGGGTTTTCTAAATATATAAT
CATGTCATCTGCAAACAGGGACAATTTGACTTCCTCTTTTCCTAATTGAATACCCTTTGTTTCTTTCTCCTGCCTGATT
GCCCTGGCCAGAACTTTCAACACTATGTTGAATAGGAGCGGTGAGAGAAGGCATCCCTGTCTTGTGCCAGTGTTCAAAG
GGAATGCTTCCAGTTTTTGCCCATTCAGTATGATATTGRCTGTGGGTTTGTCATAAATAGCTCTTACTATTTTGAGATA

Fig. 6.34

CATCCCATCAATACCGAATTTATTGAGAGTTTTTAGCATGAAGTCCTGTTGAATTTTGTCAAAGGCCTTTTCTGCATCT
ATTGAGATAATCATGTGGTTTTTGTCTTTGGTTCTGTTTATATGATGGATTACGTTTATTGATTTGCATATGTTGAAGC
AGCCTTGCATCCCAGGGATGAAGCCCACTTGATTAGGGTGGACAAGCTTTTTGATGTGCTGCTGGATTTGGTTTGCCAG
TATTTTATTAAGGATTTTTGCATCGATGTTCATCATGGATGTTGGTCTAAAATTCTCTTTTTTTTGTTGTGTCTCCGCC
AGGCATTGGTATCAGGATGATGCTGGCCTCATCAAATGAGTTAGGGAGGATTCCCTCTTTTTCTATTGATTGGAATAGT
TTCAGAAGGAATGTTACCAACTCCTCTTTGTACCTCTGGTAGAATTCAGCTGTGAATCTGTCTGGTCCTGGACTTTTTT
TGGTTGGTAGGCTCTTAATTATTGCCTTAATTTCAGAACCTGTTATTGGTCTATTCAGGGATTCAACTTCTTCCTGATT
TAGTCTTGGGAGGGTGCATGTGTCCAGGAATTTATCCATTTCTTCTAGATTTTCTAGTTTATTTGTGTAGAGGTGTTAT
TCTCTGATGGTAGTTTGTATCTCTGGGGGATTGGTGGTGGTATCCCCTTTATCATTTTTTATTGCATCTATTTGATTCT
TCTCTCATTTCTTCTTTATTAGTCTTGCTAGTGGTCTATCAATTTTGTTGATCTTTTCAAAAAACCAGCTCCTGGACTC
ATTGATTTTTTTGAAGGTTTTTTTGTGTCTCTATCTCCTTCAGTTCTGCTCTGATCTTAGTTATTTCTTGCCTTCTGCT
AGCTTTTGAATGTATTTGCTCTTGCTTTTCTAGTTCGTTTAATTGTGATGTTAGGGTGTCAATTTTAGATCTTTCCTGC
TTTCTCTTGTGGGCACTTAGTGCTATAAATTTCCCTCTACACACTGCTTTAGAATGTGTCACAGAGATTCTAGTATGTT
GTGTCTTTGTTCTCAKYGGTTTCAAAGAACATCTTTATTTCTGCCTTCATCGCATTATGTACCCAGTAGTSATTCAGGA
GCAGGTTGTTCAGTTTCCATGTAGTTGAGTGGTTTTGAATGAGTTTCTTAATCCCAACTTCTACTTTGCACTGTGGTCT
GAGAGAAAATTTGTTATAATTTCTGTTCTATTACATTTGCTGAGGAGTGCTTTACTTCCAACTATGTGGTCAGTTTTGG
AATAACTGTGATGTGGTGCTGAGAAGAATGTATGTTCTGTTGATTTGGGGTGGAGAGTTCTGTAGATGTCTATTAGGTC
CGCTTGTTGCAGAGCTGAGTTCAATTCCTGGATATCCTTGTTAATTTTCTGTCTCGTTGATCTGTCTAATGTTGACAGT
GGGGTGTTAAAGTCTCCCATTATTATTGTGTAGAAGTCTAAGTCTCTTAGTAGGTCTCTAAGGACTTGCTTTATGAATC
TGGGTGCTCCTGTATTGGGTGCATATATATTTAGGATAGTTAGCTCTTCTTGTTGAATTGATCCCTTTACCATTTTGTA
ATGGCCTTCTTTGTCTCTTCTGATCTTTGTTGGTTTAAAGTCTGTTTTATCAGAGACTAGGATTGCAACCCCTGCTTTT
TTTTGTTTTCTATTTGCTTGGTAGATCTTCCTCCATCCCTTTATTTTGAGCCTATGTGTCTCTCTGCATGTGAGATGGG
TCTCCTGAATACAGCGCACTGATGGGTCTTGACTCTTTATCCAATTTGCTAGTCTGTGTTTTTTAATTGGAACATTTAG
CCCATTTACATATAAGGTTAATATTGTTATGTGGGAATTTGATCCTGTCTTTATGATGTTAGCTGGTTATTTTGCCCAT
TAGTTGATGCAGTTTCTTCCTAGCCTTGATGGTCTTTACAATTTGGCATGTTTTTGCAGTAGCTGGTACTGGTTGTTCC
TTTCCATGTTTAGTGCTTCCTTCAGGAGCTCTTGTAAGGCAGGCCTGGTGGTGACAAAATCTCAGCATTTGCTTGTCTG
TAAAGGATTTTATTTCTCCTTCACCTGTGAAGCTTAGTTTGGCTGGGTATGAAATTCTGAGTTGAAAATTCTTTYCTTT
AAGAATGTTGAATATTGGCCCCCACTCTCTTCTGGCTTATAGAGTTTCTGCTGAGAGATCAGCTGTAAGTCTGATGGGC
TTCCCTTTGTGGGTAACCCGACCTTTCTCTCTGGCTGCCCTTAACATTTTTTCCTTCATTTCAACTTTGGTGAATCTGA
CAATTATGTGTCTTGGAGTTGCTCTTCTTGAGGAGTATCTTCGTGGCATTCTCTGTATTTCTGGAATTTGAATGTTGGC
CTGCCTTGCTAGGTTGGGGAATTTCTCCTGGATAATATCCTGCAGAGTGTTTTCCAACTTGGTTCCATTCTCCCATCAC
TTTCAGGTACACCAATCAGATGTAGATTTGGTCTTTTCACATAGTCCCATATTTCTTGGAGGCTTTGTTCATTTATTTT
TACTCTTTTTTCTCTAAACTTCTCTTCTTGCTTCATTTCATTCATTTCATTCATTTCATCTTCAATCACTGATACCCTT
TCTTCCAGTTGATGGAATTGGCTACTGAAACTTGTGAATGCATCATGTAGTTCTCATGCCATGGTTTTCAGCTCCATCA
GGTCATTTAAGGTCTTCTCTATGCTGGTTATTCTAGTTAGCCATTTGTCTAATCTTTTTTCAAGGTTTTTAGCTTCTTT
GCGATGGGTTTGAACATCCTCCTTTAGCTCGGAAAAGTTTATTACCCATCGTCTGAAGCCTTCTTCTCTCAGCTTGTCA
AAGTCATTCTCTGTCCAGCTTTGTTCCGTTGCTGGTGAGGAGCTGCATTCCTTTGGAGGAGAAGAGGAGCTCTGATTTT
TAGAACTTTCAGCTTTTCTGCTCTGGTTTCTCCCCATCTTTGTGGTTTTATCTACCTTTGGTCTTTGATGATGGTGACG
TACATATGGGGTTTTGGTGTGGATGCCCTTTCTGTTTGTTAGTTTTCCTTCTAACAGTCAGGACCCTCAGCTGTGGGTC
TGTTCGAGTTTGCTGGAGGTCCACTCCAGACCCTGTTTGCCTGGGTATCACCAGCAGAGGCTGCCGAACCGCAAATATT
GCAGAACGGCAAATGTAGCTACCTGATCCTTCCTCTGGAAGCTTCATCTCAGAGGGGCATCTGGCTGTATGAGGTGTCA
GTTGGCCCCCTACTGGGAGGTGCCTCCCAGTTAGGCTACTCGGGGGTCAGGGACCCGCTTGAGGAAGCAGTGTGTCCATT
CTCAGATCTCAAACTTCATGCTGGGAGATCCACTACTCTTTTCAAAGCTCAGTTGGAAATGCAGAAATCACCCGTCTTC
TGCATCACTCATGCTGGGAGCAGTAGACTGGAGCTGTTCCTATTTGGCCATCTTGGAACCTCCCCCAGCTATACCTACT
TTATTGGATTTTTTGTGTCTCCATCAGCTGACATGGTACTTACAGCCTAGAATGAGCATACAAAGGATACTCATTCGCTA
TTCGATGATGACTGACAAACAGTCTCCCAGGATCACCATGAAATAACTAAACTGAGTTTGATTTATTTAAAAATCAGGT
CCAGGTAACAAACTGCACCTGTCCCCTTGAATTGATACAAATAAAAATAAAACAAAAAAGGACAATATTTTACTTTATG
GAACTTTTTATTACAAAGAATTAAAAAAAAATAAAATAATAATACTTAAAAGAATACTTTGACTATTATTTTATCACCT
AAAGGCTTCTCTTATTATTTTATTTTTGGAGACAGAATCTCTGTCACCCCGGCTGGAGTGCAGTGGCGCGATCTCAGCT
CACTGCAACTTCTGCCTCCCGGGCTCAAGCAATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGATTACATGAGTGCACC
ACCACACCCTGCTAATTTTTTGTATTTTTAGTAGAGACAGGGTTTCACCATATTGCCGAGGCTGATCTCAAACTCCTGA
GCTCAGGCAATCTGCCTGCCTCGGCCTCCTAAAGTGCTAGGATTACAGGCATGAGCCACAGCGCCCTGCCAACCTAAAG
GCTTTTCACAACTGGGAATTCACTGAATGTTGTATCATTAAAGCTAATGTGGACCTTGGATAACTGTATGCCTRTTTTC
TGGGAAATAATGGTGGAGCTCTTTGAAAGGGTAAAAATGGTGTTTTATCATACATAACTATGCCTGAGGTTTTTGTTTT
GCATTTATCTTTGGGCAAAGTTGTAAAGTTAAGCAAATCTGGAATTGAAATAATTTGATAACATCAGCTAATATTTTTC
AAAGTTAGATTTTTGAGGTATAATTTACATAAGAGTTACTCTTTCTAGAGGTATAGTTGAATGCATTTTCACAAATGTG
TACAATTGGATAACCACCACCATAATCTAGATATATAGGTAATGTGTAATTATAATATATATGTACTATATAATATAGG
ATATTTATACCACCCAAAAAGTTTTCTCTTGCTTTTTATAGTCATTCCCCAAACCCCACGTCCAGTGCTGATTGTCCCT
ATGGTTTTGCCTTGCCAGAATGAATAATACATTAAAGATATAGCCTTTTGTGAATGGCTTCTTTCACTTACAATACTTT
TGAGTTTTGAGTTGAATTATAAGTTTCACTTATAATACATTTTGTGTTATTGCATCTATTGGTAATTTGTTTCATTTTA

Fig. 6.342

TTGCTTTTTAGTATTTCATTTTTTTCCAGTATGTCATTTTATGGACACAATTTGTTTACCCATTCACCAGTTGACTGAT
ATCTGAACTGTTTCTGGGTTTCTGCTATAGAGAGTTGCTATAAACATTTTCATATAGGTCTTTATATAGACATATGTTT
TCATTTCTCATGGGTAGATACTTAGAAGTAGGATTGCTGGGTCATATGGTCACTCTACTTTTTAACTTTATAAGAAACT
GTCAAACCTTTTTCCAAAGTTTCTATACCATTTTGCATTCTCACTAGCAATGTATGAGAATTTAATTTGCTCTGCATCC
AGGCCAGCATTTTGTATTGTTTGTATTTTGTATTTTATACATTCTAGTAAGTATGTAGTGTGGCATCTCACTGTGGTTT
TACTTTTTGTTTCCCTAATGTCTAATGATGGTCRTGGATCTTTTCACATGCTTATTGATCTTTTTGATTCTTATGAAGT
GTTTGTTTGTTCAAATCTTTTGACCATCTTTTCACTGGATTGTCCTCTTATTGTGTTGTAAAGATTTTTTAAAAAATAA
TTTCTGGATACAAGTCCTTTATTTGATATGCATTTTGTACATATTCCCTTCTCAAGTCTGTGGCTTGTTGTTCTGTTTT
CTTAACAGTTTTTTTCAAAGAGAAATTTGGTAAAGTCCAGTATACCATTTTTCATTTTATGCTTCATGCTTTTGTGGTT
TAAGAAATCTTTGCCTAACGCAAGATCACAACTACTTTCTACTGTGTTTTCTTCTAGAAGTTCTTTAGTTTTAGATTTT
ACATTTAGTTCTATGATTCATTTCAAGTAGATGTTAGTGTGGTGCAGGATAAAGGTTGAAGTTTCTTGTTTTATGAGTG
GATGCTCAATTGTTCAAGCATTCTTTGTTGAAAAGAATATCATTTCTCTTTTATAGCTCAAATTTTATTACTTAAAATT
ATTTTAAGATGCACATATTAAAGTGATATGTGTAAAAGATTATATATTTCTGGAAGCATGCCTATTTACACTAGTTATT
ATTACTTTAGGAGACAGATATTCTCTTTGTTTAAATTGTTTCCACAAAGCATACCACGAAGTACAGAGGGGACATTAGT
AACTATTTTATGATGATTATGGTATTCATTTAGGCCAATTTAAGTGAATTGGAGATCCTAATTTTCTCTATAAGGAGAC
AATACTTTTTCATACAAGATTATTTTTGTGGAGGCTTCATTTATGTGAAGTTTTTGCACCCATTTATTGTCATGATTAT
TCTTCAGTGAAACAAAAGTCTGTAGTAGATATGCTGCTGCTGCTGGTTTTAGGTAAATTGACTAAATAGTTATACAAAA
CTCTGTCTCTACCATATATGAATTCAAACTGTATCAACAATTACAGAATACTATGCTAACATCTAATAAGAGAGTTAGC
CCATGTAGAAGAGAAATATAAATACAGCTATCAGATCAGTCTCATGTTATTTCAGCTTCAAGGAGCCTCTTAGCAAAAA
TGGTTTCCTTTCTCCATACATGTTGCAGGTGTTTACTATTTTAAATGAGACTTTTTTGTTAAAAAAAAATTAAAATAAG
ATCATTTAGAGAACGATTCTCAGCTTGTTCAGATGATTATTTGGTTTTAAAAAAGCAGCCTGGAGTTCCTCTTAATCTC
AAATCTCCATAAAACTTACAAGAGATGTTTTCATTTACTGAAAGGAATAGTTTTTTCTTAATCAAATGTAGAGCCATTA
TCACTAGAGGGCAGTAAATACAAACAGATTTAGTGGATTTACTGGCACTAACGATGTTTTCAGAATACTAGCATTAATC
AAAGAAAGTATAGTTTTTATAATATGAAAATACATGTAACATTCTGTTATGTAAAATATTGGTTATGAATCAATTCTAG
ATTATTGTCTGCCTCTAAAATATTTTTAAGGCATTTGAAAGCAAAGGGAGGCTGAGAAACACTAGTTTTCTGTGGCTAT
TCTGTTTAATACTTGAAGTTTAACTTTGCCTCAGAATTCTTCAAGGGACATTTAAAAATTAGATTTGCATTTGTTCAAG
CTGAACAGTACTGGATATATGAGAGACCACGTTATATAGATTTGCTTCTTGATTAATAACTACCACGACTTTTAATTTT
AAGGTGAAAGGTGTAAAATAAATGTAGATTGATTATAGGATAAAATATTTTCCAATAATGTAAGTCCTACTGCAAACAG
TGCTACTGCCTGGAAAACTCCTTATGTTGGAGAGGTCCAAGAGCTAATACACTTATTTAAACAATATTTCTTAAATAT
TTCAAACACAGTAATATAATATACAGCTTAGAATTGATTATATTAACGGATCTATTATGTAGGCTCTAGGCTAAATATA
AAATAATGCCTGAAATAGTTTCTTTTTTTGGCAATTTAGAGTACTCTGAAACCAGACAGTCTGGGTTCAAATCCTGGC
CCTGTTACTTACTACTGGCTTTGTGACCTTGAGCAAGACAACTTGACCTCTCTGAGCCTTAGTTTCCCCATAATTTAGT
TTTGTTTTTCCCTATTCAAAAATGCATCTTTTCTCTCTTGACCTCTGTTACAAAGTCAATAATGACAGCATGTGTTAAT
GTATCAGCAGTTCAGCTCCATCAGCAGAATTTCAAATATCCTGAAATGTACTGAAATAGTTCAAAAAGATTGTTAATTG
CTTGGGTATCTGGTAAGGACTGAGAAAACAAGGAATAGCAGGGAAGTGGCCTCTAGAAATTCTGAGGGGTATTTCTAGG
AAAAGTCTGAAAAAGAGAACTAACTGAACATTATGGGAATTTTTTTTTCTTTTTTGAGACAAGGTCTTGCTCTGTCAT
CCAGGCTGGAGTACAGTGGTGCAATCATAGCTCACTGCAGCCTTAAACTCCTGGCCTCAAGCCATCCTCCCACCTCAGC
ACCTCCCACCTCCCACCTCAGTAGTATCTGGAACTACAAGCACATGCCACCACACCTGGCTAATTTTTAAATTTTTTGT
AGAGACGGTGGTTTCTCTATGTTGCCCAGGCTGGTCTCGACCTCCTGGCCTCAAGCAATCCTCCCGCATTGGCCTCCCA
AAATGTTGGGATTACAGGCATGAGGCACTTCACCAGGCCAAGAAACTATTTTTTCTATTTCAACAAACACACTTGCATA
TATGTATATAAAATCATTTGGGCATTTGAGAGCAGTGGATTACAGATAAGAAACCTGAGCTCTAGCTGTAACGCTGTCC
CTCAAGTTGTGTTGTCAGAACTTTTCTGGACCTCAGTTCCTTGTCTGAATGTGTCGTCATCATTACATCTGCATATGAG
GGCAGCTGTGTGTTGTTCACATAGCGCTCCCAAACATAAGCGTGTCTCACTATATGGCAGGGCTGTCTGCCTGTGGGCA
CCTGCTTCCTCACCCTGTCCAGAGATCTGACCATGGTGATAGTAACCATGATTCTTTAATTCAAGGCACTGTAAAGTTA
GCAAAAAGATTGAGGATAAACAAATCCACTCCTAGATTCATACTGTTTATCATAGAGTTTGCATCAGCCTAATTATATG
ATGAGCTGTCATACACCATTAAGAGCAAGGACTGGGTTTGCATTTCAATCCTGTCACCTATGGAGCAAGTTATTGAATA
TGTAAGAAGGTCCATCTTTTCATGTTAAAATAGGGATAATATTTATCTTATCAGAATGTTGCCAAGATTAGAAATGAGG
TATGTAAAGTTCTTTGTGCATAGTAGGTGCCTAGTAAATGTTGTAACTTATTAAAGTTTCTTCATTAAATTTGGTGAAG
CCAAGTCTGACTATAAGAATTGTATCTCTCTGGCTCTATTCAAATTTCTCTTCTAAATTATCTAGATTCTCTCTGCAGA
TAGCAGCTACCGTGGCAATAGGAAGGAGATTCTAGTCTCCTAGAAATGGAGATTAGGGAAAATGAAATGAATTTTAATT
TGGCTCAGAGATTTTTGAAAAGATTTCTTATTCCCTAGAAATATGGAAACTTTCCTTGGTACTTTTTACTCAATATGAT
TAAATAATCTCCCTTATTGCAGCAAATTAGGGACTTATTTGAATAAGTTAAATCCTTTCACATCCAGCACCTATTAGAA
TGCCTGGCACATAATAGTTGCCAAATAGAAGTCTGTTGAATGAAGGGACCATCACTCACATTCAGCAGGGAGAAGAGGC
TGCAGATTTTAGAGGGAAGGGAAACTGTATGTGTGTTTCTGCATAATGTTTTAAGACAAGGAGTATTATCTACTATATG
TAATCTGTTTTAAATGTTTTTGATGATTTTGCTGAGGGTGAAAACCCCTTGTCCTTTCCTGTCACCTATAATCAGTATAA
AAATATTGATGTTTTGCATCTGCATCAGCCAACAATCTTTTTGTGGCAATAGTACACTACCTTGAGAAATACAGGGACA
TAATAAGATACTTTTCTGGCCTCAAAGATCCTCCACCCTGGATGAGGAGTCAAAGTTGAAGACAGTTGAAAAAAATAGA
ACAGTGATTCTTAACACTGGGGAACATTCAGGAAATTTCAGGGGACAGTGACTGGGGAGTACTCCTGGTGCTTGGTGGG
CAGAGGCCAGGGAGGCTAGATGTCCTGGGATACATGGGACAGCCTTTCACCAGGGAGGTTTGCTGTGTGTCCCACACAA
CTTCCAAAAAGTCCCAGCAGCTATTCACATAGGTGAAAAAACAAAATGCATTTATAATTCTCTGAGCCTAGAACCCAAC

Fig. 6.353

TACTTTTTACGTATAAGTATTAAATATTTTTACATGGTTTTAATCCACACCAAATTTTCTAGTAATGCAGCAATAGTGT
ATATTGTGAAGATGGCACTTTGTTACATTTGAAACCTTTCAAAGAATCATTCATCATATCAGGAAAAAGGAAAATTTTT
CTAACATAACACCCCTGTATTCATTTTCATGCTACTGTTACTTTTGTGGTAATTCTCCCCATAAGAGAAATCATAGCAA
ACCCTTAGATAGCACTTACTGTTCTAAGAGCCTTATGTATATGCACTAATTTAATCCTCACAACAACCCTGTAAGGTAG
AAACTATTATTCTCATTTTCCATGTGAGTAAACTGAAGTATGGGAAATTTAAATAGCTTCCCCAAGGTCACACAGCTAA
TCAGTTATAGTAGTTTTTGACTACTTTTTAAAATGTAGTTGTGTACAAGTATTTATATTTTGTAGTATTTGATAGAAAT
TACTCATTTCTCCTTTATTTCACTGATAAGCCATTATACTGATTTTTTTTTTTAAATCTATGTAGGGAGTATTTAGCCTA
TATGTATTCAGTACAGTATTATGAAGGAAGTGTATTTAGGAATTTCATTTCAGGATGAATACTTGTTATAAAAAGTAAA
AAGTAACTGAGTCTTAAGTTTGTCAAAGAATAAAATTGATGGATGGATGGATTTTTTTTTTTTTAAAGGAGGGGGAAGG
CAGTGAGCCTGACTGCAGAGTGTAATTTGCATTTAAATGACAAGTGGTATGACACTTCCACCTGTTCTTCAGGGAGCCT
CACCAAGTATGTTTTGCCTCGAGGCCTTTGCTTTTGCCATTCCTCACTTGGTTTTCCCTTCTCTACCCTACCTCTCACC
CCGCAATCCACATGGCTTGTTTCCTTTCTTCAGATCTCCTGGTATACGTCATCTCATCAGAGGGGCTTTCCATGATCAC
CTTATAGCAACCTCTATCCGTAATCCTTATCCCTTCTTTCTCTCCATTGTGCTTATCACCCCATGACGTATTATGTATT
TATTAACTTAGTTTTGGAATATAAGCTGCAGGTGAGAAAGCTTTGTTTCTCTTTCTCAGGCAGTGCCTGACATAGAGTA
GGAGCTTAATAAATATTGAATGAAGGGGCAGATGTAGAATCGTTAGAATTTGGAAAAAGGCTGGAATATTTGGTCCTAA
GATGTACTTTGAATGATTTAAATCTGACTGAGAAAACCAGTTTGAGGTTGGCAGAGTAGAAGAAGGAGGGTATTTTAGG
CCGAGAATTTGGTAAGACAGAGATGGGATTGTCAGCTGTATGGTGAAGGTGGAGGARTACTAGTCTTTCAGGAACAGAG
CAAATGTAATAGAGCAGCTGAAAATAGGCTTGGCGTTGGGGATTAAGGTCAGATATGGCAGTCTGGAATTTACAGAGGG
ATGTGATGAAGCAGGCATTACTAGCTTTGAAGTAACAGGCTGCGGCTGGATTTGAGGAAAATTGATCTGGCAGTAGAGG
TCAATATGAGACTAGAAGGGGAAAAGCCAGGGGCAAGAAGATGAGCTAAGAAGCAATTACAGCATTTTGGCCCTGAGAC
ATGGAGTGCTGTGATGCAATTGAAAGGAAATATAACATATATATTTAAAAACAAATGACAAACCAGAGAATTTTTTTA
AATATTAGTATAATAGAATGATTATCATAATGATCATTGTCACTGTCATCTTTACTGTCTGATACCTACTTATCTTCAA
CTTTGTACCATTTGTTGTTTTAAGTGCTTTGCATATATGGTCTCATTTAATCCTCATATGTATCTGTTCTGGTTATTTA
TTGCTATGTAAGAAATCACTTCAAACCTAATACTTTGAAATATGAATGTATTTTTATTAGTTTTCATGGCTTTGTGGGT
TAACTGGTCTTGGCTAGACATTCTTGCTTGGCATTCCTCATATGGTTGCAGCCCAGTGGGTAGCTATCTGAAAGCTGAA
CTGGCTGGATGGCTAGGATGGCTTCTTGCCCCTCAGGTCTGGCTCTGGGCTGGGGTGGCTGGCATTGCTGAAGACTGGC
CAGGCATGTGTGCTCTTTCTTGTGCAAGTGCTCTCTTGCGCTTTCTCTCTTCACTGTCTGTGAAGTTAACATGGACTTC
TTGTAGCATAGCCTCTCAGAGTAGTCAGACCTTTTTTTTTTTCAACCTAATGGCTTAGGGGTCCCAATAGCACATTCAA
AGAAAGCAGGATGAGAGCTGCAAGATTTCTTATGACTTAGCCTCAGCAGTCATGCACCATCACTTGTTGGTTACACAAG
CCAACTCAGATTCAGTGTAGGACAGTGTGGCTCATTAAGAGTATCTTTGGAGACTAGCTGCCACAGTAATCCACTTTAC
AGATGAGGAAGCTGACACACTAAAAAGATTATTTGTCAGTGATTGTGCACAAAAGATTTAAACTTGCAATTCTTGTTCT
CAGTACCAGAGTGAACCTGGGAAAATCATTTTTTCTCTCTAGGTCTCAACTTTATGTGGAAATGAGGGAGTTAGAGGGG
GTGATATTAAAGTTACTTTCTATTTCTCTCAGTCTTTTAAATATTTGGATTCAGATTACGGGAGGGGTAATGGTAAGGA
AYAAACTGAAAGAAACAGCTCTGGATAAAAGATAGGGCTTGCTAACAAAGTTGAATGAAGGAGGGAAGGTGATGCCGTA
TAGGGGAACATGCCGGGTTACTCAAGGATTCAGCTAGATGGTTTATATTAAACACCTGACAGTGTCTGACGCACATGAA
ACACCTGTTGAATGGTAGGAAAGAGTCATAGATTCCATCTGAGATACTGGAAGAAATATAGGCTCACTGACTGAAATGG
AAGTAATTATACTAAGAACTACTTTAAATAGAAAAATGTCTCACAGTTTTGAAAAAGTTTGTCGTGACTAGCAGGGCAT
TCGAGAGGAGAATCTTGTATTCAGAAATATGGCACTGAAGTTCAAGTTAGAAGTGGTCATTGAAGATTGTGGGCCTAGG
GAAAATTAAAGAAGTTCAGGATCCTGGGAGTTGAGGGAGAGTAGTAGGAATGATCAAACATGTGGAACACTTCAGAGAA
GTAGGGAGACCAGAGAAAAGGAGGACCTTAGTATTCCTCTGGGGGTAGCTTTAGTGGAATGTTGGAGCTTTAATTTCTT
CCTTTTGTAGAGGAGTAAGAGTGATGGAAATGAATACAACAGATGTTAACAAAAGCAGAGGACTGTAGCAGCTAAAGGC
CAATAGAAACTCAGAGAGACACAGTGTTACAGGAGTGCTTATCAGAGAGCATGCTCTCTAAGACAGACATGCCACATGT
GGAAATAGTTAAATGTCAGGAAGACTGCAGAGTAGCCATACCAGCAAGTTAAAGCACAGAGTAGTAAGCACAGGCTTTG
AGATGGAGAGGAGGTAAAATGCACAGAATTATATGCTAAAATCAACTAAAACCTAGTTTTTCCTTGTTTCTCACCCACA
AGACCTCTTTAGTATTAAAGTTACAGGGTAATACTACACCAAACCAAATAGAAAATGCTGTTTTTCTAGAAAGAACTTT
GATTTCTCATTTAACCCTCCTCGTAAAATGTCTGATTACTCTTGAGCTCAATTCTGGATTCCTAAGAGCCACTCATTCC
TTTCTTAACTTTGTGTACAGTTATTAAAATGTTCTGTTCTGGCTGGGCACGTTGGCTCACACCTGTAATCCCAGCACTT
TGGGAGGCTGAGGTGGGCAGATCCCCTGAGGTCAGGAGTTTGAGACCAGCCTGGCCAACATGGTGAAATCCCGTCTCTG
CTAAAAATACAAAAATTAGCCAGGCGTGGTGGTGGGCGCCTGTAATCCCAGCTTCTCGGGAGGCTGAGGCAGGAGAATC
GCTTGAACCCGGGAGGCAGAGGTGACAGTGAGCCAAGATCGCACTACTGCACTCTAGCCTGGGCGACASSGAGACTCTG
TCTCTAAATAAATAAATAAAATATTCTCTTCTGATCAAAATACAGATCCTGAGTTCTATATACAAAACACTGCATTCCT
TATGCATACACAGTGCCCTAGCTTTCACATTTCCCTCCCCCCAGAATTGCAAGTGGTCCCACCCCTAGATTTTGAAGGT
TTTAGAACTCTGTCATACATAACAATAGAAACAAAAGGAGCTGAGAGCAGCCATGSCACACAGGTGAGGGAATGTGTCA
TTGCCATCTGTGCCATCTGTGAATTCTGGACATTAGTCGTATTGTTTAATCCCTATGCTTTTATGTTGGATGAGGGGAG
AACTACAGTCATTTCTACATCACCAGGGAGCCACTTGTTTTGGATTTGAGAGAGGGAAGCAATTAAAATGCTCGATTGC
CATTTTTGGAGCAGTTTTTATTTGGAAGGAAGGGAAGCCAGAGGACATTAAAATTCATAGAAAATGCCCTCCAAAAGGA
TGGGCAATTCTTAAGAATGAACTACGAATTTTGAGGAGTTTTATGGTCATTATTCATCACTGCAAGAGGGAAGCCCCGT
TCATCTTTTCTCAGGGTGGCCTCAGAGCTGCAGGGATACCATTATTCAATGGCGTTTGTCGGGTGAGGAGAAAGCCTCC
CCAGAGGCTGGCCCTTGCCAACCAATCCCAAAGCAGCCTGCACCGAGGCCACACCCCCTCGCCTTATAGGCTAAGAGCT
GGAATGCAATTGGTGCAGAGTTGGGGTTTTATGGGAGGGGCTTCTTGTCACTCTTCCCGGCTTCCCTGCAGTTCCTTAT

Fig. 6.344

TTGGTAGCTTTTGACAGGACTAGCCTTTCTTGCAACTAAGCATCTTGACATACATTATTCATTAAGCCCTGGAGCTCGG
GAGAGAAAGATGCAGACCCTTAGATCTTTAGATATTCCTTTATCACGTGGATTTTCTTTATTCAGAATAGTTGCTGAAT
TTTGTGCCATTCTGGAGTCTTACAAATGGCATGTATTCGATGGGAAGACGGCTGGATGGGATTTAATGCGAGGCTTTCT
TATGTATACTTAATTACCAAAAATCTTTAAAAACTCATACTCTGCGTGGCTTGTGGAGGTTGTTAAAGTGTCGAGATTT
TGAAGCTAAATACATTTTAGAGCTKWCTATATATATACATATATATATATATATACATATAATCAATCAAAAATGCCTG
AAGCAAACTATTTACTGTCAGTGTCTTGGGGCTACATAAAGGTAAGACTTACTTAGCTTTTGAAAACTCCTTACTCTGA
TTACAAAATTATTTAGAAAGCTTAGACTCTACTGTAATTTGTTCAAACTATCAGTTATGTATTCTTTCCTTACACATGA
ACTAGGAAGAAATACGTGTTAATAGTGGTCAAGATAAGATTGTATAACTTTCATCAGTTGTAGTTTGAGTGTTAAAATA
GCTKTTTTAGATACGCAGTAGTTCTTCTGTTTGTCATGTGGTATATGTTTGAATTGTGCTTGAAAAATATATGGTAATT
AAATACATTCATTGCAAATAAATTATTGGGCCAAATTACTTATACTGATTTATGGATTCCAGTTAGTATGTTGCACATA
AAGTTTATAAAATTAATTTGTGGCTGTTTCTAAAAATCTATACTACTTTAACCTGACGAGGAATACGTTTTTTTCACCT
TTAGCTATAAAGCCCTAGGTGACATTAAAAATTGACATTACTTAACTATGTAAGTGATACTAAAGTGAAAACTTGATTG
TCTATTATACTTGCAAAACTGAACAAAGTTTTTATTACACTGTTTTGTGAATCTCAAGAAATGAATTAATAAACAATTC
AATAAGATTGTGTCCATGCTTGGCAGGCTTTTTCCATGCCCTGTGGTAACATTAGCATTGTGATCCTGTCTCCACAATA
GAAGGAGGTAGAAAAACCTTATTCAGTCCTAAATGAAACATCACTTCACAGATTTTTGGTATTTGAGCCACTCGCTTGA
ACCTGGGAGCCAATCACAACACATTTTAAAAGATTCATTTTCTGTTACTCTGAGGATTTTTCAGATTGGAGTGTTTGTC
GTTTGCTTTGTTTCTTTCTTTTTGAAGGACAAGTTCCCCTTTGTTTTAGAGATTTACTTGAATTCTAAAAAAATTAGAA
AACTTATTTCAGTCTTGGTTRTCCAAGTAGTCATGATTCCTTACCTCCCTTTAAATCTGTGGATGATTCAGATTTTTAA
AAATGTTTTTAAAATATATAGACTTCCATTATTTGAATTTTGTTAGCCATWTCTTGGCTAAAAATCTTCAGAAATGCAG
AAAAGTATAGAGAGTAAATATAAGAWGCCCTCATTATCCGCCAGAATTCAGCTCCTAGCTTTTAGCCAGCTCACAACTG
ATGTTATTTTTGAAGSGCTTCACATTTGTACTGTGATTATGAACCATTTGTACTATGATTATGAACAATATTGCCAAGA
ATCTACATATAGAATTTTAGTACGTTTCTTTTTGAGGAAAATTTTTCCTGGACAGCTTTATGTTTAATACTGTACCTTT
AAAAACATGTAAAAATAGCAAATATAGATATATTTGGTCTTATGCATTTTGAAGGTTTTATTTTTATACCATCAATGGA
GTATTTGTTTAAATAACTTTGAATACTGATATCTACCAAACTTGTAATGCATCACAGTGCAGCATATTCAAATGATTTT
TAGCAGAATATTGTCAGGAAAAAATAAGAAAATTTTCTTACTATTGGACCCATACCACCTCCTTAAATATATATTGGGA
GGATATATAATATACCCAGTAGCACACTGGCGTGATGTAGAAGTAAAGGAGATTACATTTAAGGACATTTTGTTTTATT
ATTTTAGTTTGCTTCCTGAACAATCTTAAATGCCTAATGTAAATTGAAGAATTGCAGTTCTGAAAAGCAAAATACAGTA
TTGAGATTCAACTGCATTTTTACTTTCCTTTATGCCTTAACTGCTGTACACAGACATTCTGATGTATAATGAGAACAAA
GGATTCAAAAGCATTCACTTAGAAATCCTCCCCTGTTTTTTTAGTTGCAACCCTAAATCTGTGTATTGTTTTCAGACTA
CTTAGGCCAAAAACAATTAGAAATTCATCAATGGAAAATATTTAGAGGTCACTTAAAAAAATAAACTAAATGCTTAAAT
GGTTCTGCATTTTACAATCGGTTCGTTTCAAACAGCAGTTTAATGTTTTGTCCCTTCTAAATATATTAATTGAGAAATA
TGATGGGATTTCCCAGAAGAATACATTGTATTAGCTTTAAATCAGTCCTTCCCCCTTTGGTAATTTTATGTAGTTATCT
TAGTAAATATTATATAATTATTTTTAGATGAGAGAAGTATCACATTTTTAAATGTTTGTTGAATGATCTAGTGCATTTT
TTTAGTACATCTAGCTATGCACTCCAAAACCAATTTGTGAGATCAACTACCAGTTGAGAAAGCACTTATGGTAATTTTT
GTGGTTATTCATTTAGCTTTGCTGGACTGAAACTTTTATATGGATAGCAAAAAAGGAAAACAATGTTAATTCCTTTTAG
AAAATACCCTTGTGTTATAACTTAATGTACGCTTCAGAATTATCTTTAGGAAATTCCTTAGACCGTCTTCCTAGAGTAG
AGAAGTAATTGCTTCAAATATTGTCTTTTATAATTATGTTAAAATGAAATGTTGACTTCCTTGGAGTCCCTTATAAGCC
TTGGTAGGGAGGTGGGCATGTGATGGAGGATTTCTCCAATCCATGTTTTTGTGTTTTAAACAAAGGCTGGAAAGTACTC
TGGGAATAATGTATATGACCAGAAAGATGAACATGCAGGATGTCACTTATCTAGTCTGTACAATATTTAGATTCCTTTC
ACTGGCTTTTTTCTTCAGTTATCTGTACTAACTGGCTATTTTGGTGAATTGTTTAAGCAAACTGCCAGGAAAATTATAC
TTCGTTCTTTATATTCTTTTAGAAAAATCCAATAATATATGTAGCATATCTGCAGGTAGCATCCACATGTTCTCTTTGG
GCAACATAATCCTTATACTAGTTTGTGTACAAGTTAGAAGATAAACCTGTGATAACTGGGTCTCTATCTATCTTTATCA
ATCACTCCCAGAAGGCTTCCCTTGTTTTGCTTTATTGAGAGAAGTGCAAGGAGGGCAGCAGTTCCTGTATAGACTGCTG
AGATTCTAGCAATGGTGAAAGCTTTGCCTCATCTCCTATCTTTTATGAAAAAAAAGACTTTGTCATGACCAGGTAGTTC
TTAATAGCAACTTTTAGCTCATAACATGAACAATTTTAGGTCAAAGAGATATTTCATTGAATGTGTGTTTAAAATGTTT
AGCAGACTCTTTTCTTTGGAATATGCTTTGCCTAATGAGTATATTTTTCCAAGTGTGAATTTATCTGTAAAGCAAATTT
TTTTTAATTATTATACTTTAAGTTCTGGTATACATGTGCAGAACGTGCAGGTTTGTTACATAGGTATATACATGCCATG
GTCGTTTGCTGCACCCATCAACCTGTCATCTACATTAGGTATTTTGCCTAATGCTGTCCTTCCCCTCCCTACCCGCTSA
TAGGCCCTGGTGTGTGATGTTCCCCTCCCTGTGTCCATGTGTTCTCATTGTTCAACTCCCACTTATGAGTGAGAACATG
TGGTGTTTGGTTTTCTGTTGCTGTGTTAGTTTGCTGAGAATGATGGTTTCCAGCTTCATCCATGTCCCTGCAAAGGACG
TGAACTCATCCCTTTTTATGGCTACGTAGTATTCCATGGTATATATGTGCCACATTTTCTTAATCCAGTCTATCACTGA
TGGACATTTGGGTTGGCTCCAAGTCTTAAGCAAAGAGTTTTTTAAACCTGTGTATGCATGACATTTTAGCTGTGCTTTT
GAGACATAGCTATGGTTTCCCATACTAATGCTATTCCAAATTCTTTATGGGATTTGAGAAAGAGGAGCTAGCTATTTAA
GTAACTATTTTTATGGTTATAACTACAGTCAAATCCTTCATCTGTCTGACCTGCAATGATAAAAATCAGCTATTTACTT
TAAAAGGCCCAAAAGTTATGGACCAAGTGCCAGAAAGTGAGCTGGGAGAAAGAACTCAAATAATATTGAGCATCTACTA
TGTGCCAGGCTAAATAGAAGACACTTCTATATTAGCYCATTAAATTATATGATAGCCCATAATTTACTCAAGAAAATAT
AACTTTGTAAAGAGGGACAGAAAAAAATTTTGAACTCTATTATAAATGTCTACAAATATTCTTAGAAGGCCCAAAGTTTA
TTTTTTTCAGTAGGTTATAAGATATAATGCTGAGTGAACACAAGCAGTAACCTATGTTCTGTATACCACCTGATGCCAG
TTTTAAAAATATGTATTCACATACAAGGGTAGAAAAAAGGCATAAAAGGAAATTTAACAAATTATCTGTGGTTATCTTC
CAGCAGTGGGGATTTACATTATTTTCTTTTTTTTGGTATAGCTTTCTACATTTTCTATAGCACATGTACATTTTATAAT

Fig. 6.345

TAGAAAGGAGTTATAAAAACATATGAACAAAGAAGTGAATTTAGTGTTCCTGAGTTTGAGACTAAGCTTTCTAGACCAG
TAATTTAACAACCAGAATTTGTACTGGTCATGCCAGTTCTTTGTTTTTTTGTTTGTTTGTTTGTTTTTTCCCCAGCATT
TATTTTATTTTTATTATACTTTAAGTTCTAGGGTACATGTGGGAATTGAACAATGAGAACACTTGGGCACAGGAAGGGG
AACATCACACATTGGGGCYTGTTGTGGGGTGGGGGAGGGGGGAGGGAAAGCATTAGGAGATACACCCAATGTAAATGA
CGAGTTCTTTGTTTTTGACTACGCTGGCATGCGAATACACATTTCTCTCATCCAACAGTCCATTGAAATGGTTGAGGGT
TTTTTGTTTGTTTTGATAACAGTTAAATGCGGAGTTAAAACTTAATCTAGATGGTCTATAAGATTGACTTTGGAAGTTA
TTTAGCAAACGGTATAGAGTTAGGCCATCTTGGTATGAATTATGCAGAGAAGCAAAATAATTCTAAATAATTAAATACT
AAGAATTATATTTCAAACATCACTAAAATATACATTCAACACTTACCTTCATACTTAAATGAGAATTTATGGTGAAATT
TCAAATTTTAAAGGCTAATCTGATGATTAGAGTAAATGCATCTGACTTTTTTTTGTCAAGTATCTAATAGCAGTTACTC
TATGTGTAGAAAAAAATACATTGTTTCTGTATATTAAGGCAAATATTAAAGGCTTATTAAAAGGCCTCGTCGGGTTGTTT
TCAGAGTCAAAGGACTCTGAAATGCTTAATGCTTAAGAAACAGCTGATGGGGGTGGGAGAAGTGTAAAATCTTTGGGAG
ATTTGGATACTGGTAATGCCATGTGGTGTTGGTAGGTTAATTCCAGTGTTTCTTTCAATGAAATAGGCACTATGGCATC
AGTAATAAAAACTGTGAAGTAGATTGTTGAAAATTGACCTGTTTCCTATTTAGTGACTTGGGAAAATGGTAAATTTTGT
GGATGTTGAGAAACAATAAGTGTTATACTCTTACTTGAAAAACAACTTTTAAAAGGAAACATTATACAGTATTTATTTA
AATATTTTACTTCTCCATAGTCCTGGAAGAGTACTCAAGTCTATTAAGTTTTGCTTTGGAGTAAAAGACTAAATTTTGA
GCCCTTGATCAGTATATATATATTCATTTCTGCTAATGATAAATTAATTGAAGAAAGCATTCCATGTTTTATTGTATGGCA
ACACTTTTATGTGCTATAAATTAGTTTCTCTCTTCTCTAAATAACTAATAATACATCTTAATTTTTAATTCCCTTTTCT
TTGCTTATTTCTCCTGATTTTCCCTTCAGCCCTTGGGAGTCTAAATTTGTGCTGGTCAGTCTGGTGGCCATGAGCCACA
TGTGATTATTTAAATTAAAAGTAGTTAAAATTAAATAAAATTCAAAATTTGGTTTCTCATTTGCACTAGCCACATTTCA
AATGCTTAGTAACCACCTGTSGCTAGTGACTGCTATAATTGGCAGCACCGATTATGGTGTTTTCCCCTCATTGAAGAAA
GTTCTGCTGGAAGGCACTGTTCTAAATTGTCAGGACAACTTAAAAATTCTTTGGGCATATCTTCCTGTATCTCAGAGTA
TGCATATATATATTTCACTTAAATTTTCCTCTTCTATTATTTCATTTTACTTTTCTGTTTTTCAGTTTAAAAGGATGCTTA
ATCGGGAGCTCACCCATCTCTCTGAAATGAGTCGGTCTGGAAATCAAGTGTCAGAGTTTATATCAAACACATTCTTAGG
TGAGAATAACAACATGCAATTAAATTTTTTTCTTCAGTTGTTTGCTTGTTTGTTTTTGTAGGAGGATTGGGGTGCCAAC
TCATTTTGGAAACCAAACAAGTGTTAGAAGTTCTATTTGTTTTCATTCGTCATATTAATAATTCGACACTATCCGCCTC
TGAGTTTTAGAGTTGCAGGTGACAAGGTACATTTTCTTAGTTTTATTTAGGACTTTAGGAATTCTTGAATTAAGATTAT
ATATTGCCATTTTTTCATAGTACCAAACTGTAAAATATATTTTATAGAGAGATCTATTCATATCTTCAACAAATTCTTA
TTAAATGCCAGCCATTGTTGGGCAATAGGTGTTTAATGATAAATTAGAAATGATTCCTGCCCTCGATGAATTTACCGTC
TTGTGTACATCAAGCCTAGTAAACTGGTGGGCAGATAAAATACAATTGCTAAATAAAAGTTTGCTAATAATAGCTGAGT
TTGGTGTCCTGGGACAACTCTTGTACCTCATCCACAGAAAGAAAATGCAGTAAATAAAGGTCAGTAATTTGAATGTATC
CTGGACTTACTTTCAAAACAAAATTGCTGTTATATATAGTTAACATTTATTAAACACTCTAGAATATGTTCTATATATA
AGGATGAGTTAGAGTTGCTCATCACTGCCTTGAAATCGTGGATGAAAGTAAGAAGATATCTTAGGTCTTTTACTATAGA
ACACAATTAGCTTATGTACGTATTCACTTATCAGGTAATATTTATGATTCTCTATGCTCCCATAAAACCTGGGGATTTA
ACCCTTATCTCACTATCATACAGAAATAAAAAGTAGCAGAATTAATCTAAGTCATCCAAAACCTGCTGTTTCAGCTCCC
ACAGTGTTACCCATTTCAGTTAGCTGTTAGTTTTATATACTGCTGTTTTCATGACATTTGCGTATAAAGTTTCTACCAT
TTCAAAGTATGTATTGAAACTGTAGTCCTTAGTTGGCAAGAACAATATTCAGTTCATTAAGTYAGTTTCACAAAGGAAT
GGAATTGAACAGTGGAAATAACCACCTGTTGTGTATTCTGAGTCTGCTGTCATGCTAAGTCTTGCAGCATTTTTTATTA
GGACATTGTATCAAAGAGGTAACCATGGAATACATTTGATATTATTATTTTGTAATGGAACTTATTTGCTTAATTTTGT
GTTTGAAGACATCAAATTAAGTCCAATTCAAATGTAAATACTGAACTCTCTAAAAGGAAACTTTTTAGTTGGAAACATT
TCCTGGAATATATAATGATCAATTATAATCCTTCCAATTATGCATATGATATAAAACAGATAGAATTAATAATAAATAT
AGAACATTTTCTAAATTTCTCAAGATAAGCAACATGAAGTGGAAATTCCTTCTCCAACTCAGAAGGAAAAGGAGAAAAA
GAAAAGACCAATGTCTCAGATCAGTGGAGTCAAGAAATTGATGCACAGCTCTAGTCTGACTAATTCAAGTATCCCAAGG
TTTGGAGTTAAAACTGAACAAGAAGATGTCCTTGCCAAGGTATGATGATTTCAAAGATCAGGATCATAAATATTAAATG
ATGCCCTTTCATGAATTTTCACTTCTAGTCTTTTAAATGGATAGAAAAGTTTATTAATTGGGGTTTTTTTTTTTTTCTTT
TTTTGAAGATGGGAAGGCATTTTATAAAGCTCCTTTTAAAGTGCCTTAGACAGGTGGTTTGGTATGTTTTAGGGGTTTG
GGGGGTGATTATTTGCATCTTCATTTCATTGTTTGGCCTTAAAGAGTTAGAAATCTGTCATGTCTTCTGGGTTTTAGGA
AAACAGTTAAGGTTTTGTGAATAGATTTTATCCATTAAAGAAGTGCTTTGTGATTGATACTTAAAAAGTACATAAATGT
GTTGTAATGTCAAAGTCACAAGGTTAAGCCATACTGTTCAATTTTCAGTACATTTAAGTAAATGTGCCTAAAGTTTGCC
TATGCTTACATGGTGTGTCTGTTAACATTTAAAATGAATCATTGTTTAAAACAATCTAACAATCTTTACACTGAAGTCT
GTTTTGTTTTGTTTTGTTTTGTTTGTTTTGAGACATAGTCTCGCCCTGTCACCCAGGTTGGATTGCAGAATGCAGTGGC
GCGATCTTGGCTCACTACAACCTCTGCCTCCTGGGTTCAAGCAATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGATTA
CAGGCACACACCACCACACCTGACTAATTTTTTTTATTTTTAGTGGAGATGGGGTTTCACCATGTTGGGCAGGCTGGTT
TCAAACTCCTGACCTCAAGTGATCTGCCCGCCTCAGCCTCCCAAAGTTCTGGGATTACAGGCTTGAGCCTCTATGCCCG
GCCACCTAAGGTCTGTAATTTTTAAATGATTGTGTTCATTGAGTCATATTTTACTCCACTTTCTAATATTTTAGTATCT
TTTTTTTTTTTTCACTCCAGGAACTAGAAGATGTGAACAAATGGGGTCTTCATGTTTTCAGAATAGCAGAGTTGTCTGG
TAACCGGCCCTTGACTGTTATCATGCACACCATTTTTCAGGTAAGGTGGTTGAGTTSTATTACATTTATTTTATTTAGG
AACTTAATGTCCAGTCTGTAGCTTATGCATACATTTTGTCTTTTTTAATATTCCCCACCTTTTGCTTATTTTTATACTT
TTATCCTTATTTGCTCCTTTGCCAAGGGACAAGTAAAGATACAGAAAGGTGGAGTGTGGATAAACCACAAATAACATCA
ATTTGTTATTTTTTTTGCATTTAAGAAAAAGATGTGATATAGCCAAATTGAAGCAATTTATTAAAATAATAATTTAGA
CATCATCTTAGTCATCTGAACCTGACTGCATAGAGAATGGAGTACTAACTTAAAAAAAATGAATAAAGCCCCTGCTGGC

Fig. 6.346

TACTAACCTTAGAATATAGTTTTTCAGTCACTTTCTTGTGTCCTGCTTCTTTCTTCATATCCATTTCTCTCTCTTATT
GACCCTTTGCTCCAGCTTAGGGTGGATTTAAATGAGAAGTTGAGGCTGCTGTAGATATCTCGGGACCGAAATGGGAAA
CTTCAGCCCTAGAGAGGACGTTGATTTTTAGTTGGTGTGATGCAGGGGTTGAGTTAATAGTGCTTGACTGGAGCTGCCT
CCATGATAATGGGACATAGAAACTTTTAGAGTTGGCACCTCATTCCTGACACCATACAGCTAGGGCGTAGTATTCTTGG
GTTCCAGCAGGACAACCCAACTCTGGTTTTGTCCCAGAGTCCCTGGATCTTCTCAGAGGTTCCCATTTTCCTCACTAGA
CATGTGAGAGTGCAGTTGCCATTTCCAGGTTATCCACTGGCAACACTGGTGTGTGATTTTTTTTTTAAACATACTCTA
TGGAGAAATTTTTCACATAAAGACAAAAATGTTAAGATGATTTTTTTTCCTACAGGAACGGATTTATTAAAAACATTT
AAAATTCCAGTAGATACTTTAATTACATATCTTATGACTCTCGAAGACCATTACCATGCTGATGTGGCCTATCACAACA
ATATCCATGCTGCAGATGTTGTCCAGTCTACTCATGTGCTATTATCTACACCTGCTTTGGAGGTAAATCTGTTTCTGAA
ATTTCAAGAACACTAACTTGCCACTCATAAAGGTCTATTAAACTTTTATCTGAAGGGTTTTCAATGGAGAAGATAATTG
GATTCATTGGAAGTATAACTTATTGACTTATGGGGGAAAATGCTATAGTTAATAGACAATCAAGTCTTTGATGGATTTT
GCTTATGAAAGTTGGTCACAGATTTAGTGATTGATCTGTTTATGATATTGCTTCTTTGAAATGATCCACTGAACATTTC
ATAAAGCACATCTGGCTTACTCACTTTTTGTTCATTTGTTTTCTTGAAATCTAGTCTGACGGCTTTTATTTATAGGCCA
AAGAACGTTTTATAAAACATAAGCAATATATTGATATTTTTTCATAGAATATATTAGAAGGACATACTTTAATTTTTCT
AAATCCTAAGAAGTTATTTCATTAGTTGTTTACTAAAGCAATTTGATTTTCTTAAGAAATATATTTTATAATTCAGTTT
GTTTTCATTATAAAATTATGTTAATACCTCATCATATGGGTGAGTGATTCTCAACTGGAGATGGTTTCTCTTCCCCTTT
CTTTCCCTCCTGCCACCACCAGGGACATTTGGCAATGTCTGGAGGCATTTTTGGTTGTCACAACTATCACATTTTTAGT
TGTACATGATACTGGCATCTTGTTGGTAGAGGCCAGGAATTCTGCTAAAAATCCTACAATGCACAGGACAGCCTCCCAC
GCAAAGAGTTATTGGGCCCAAAATGTCAATAGTGCTGAAGTTGAGAAACCCTGGTTTCGATGAAAGAAAATAATTGCTA
ATGTCTTACTAATTTTATGTACATTTTCAGAATATTCTTAGACATCTTAAATATTTAGAAAATAAACTATTATTTTCTT
TTAAAATAATTTCAGAGTTTTAAAATAATATTTTAAAAAATACAGTGAATGGAAAACATTTGATCATGAGATGTAATAA
AATTAGATAAAATATTTTCTTCCAAGATTATACTTTAAAAGTTCACAAGTATCTAAGACTCTCCCTTGACACATTGTAA
CACATTTTGAAGCTTCATTTTGTTTTCCATTTAAATTCTAGAGATTTCTTATTTGTTTATACTTTTAATTCATATCATT
GTAGAATAGTAATATTATCTATATTGTCTGATTTTCCAGGCTGTGTTTACAGATTTGGAGATTCTTGCAGCAATTTTTG
CCAGTGCAATACATGATGTAGATCATCCTGGTGTGTCCAATCAATTTCTGATCAATACAAGTAAGTAAACTTTATTTTT
TCAGAACACATTTTTCCCTTGTACATTTTAGAATGACTAAGGGTCTTTATAAACTCAGAGTCTTCCAGAGCCATAATGT
TCTTTTGAGATGTGTATATATGTGTTTAGTGATAGTTCATGTTAATGTAATTTAACTGAAAATTATCATTATATCCCT
TGAGGCATGTGATATTTGAAAAATGTGTTCCAGTTCTCTTTAAAAGTAATATATTGCTGTGTTACTAGACAAGGGTAAT
TAAAAATGAAAGTGTGCAGAAAGATTTAGAAAGTTGTATTGGCCCTAAAGTTTTAAATTAAAAAAAAAGTTATGAGAAT
TAATGGTAAGTGTTCCTCACTTTATGTAGGTCATCATTTAATCCTCTTCAGAGGCCATAGCTTCCCTTCCTCCTCCATG
CCCAACCCCTGTTCTTTCCTTTTTAAAATCTTCTAATAAGGGTAACAGGAACTTCTTAATATTYTTTCAACCATTTGGT
TTTTTCTCACTGTTAACATCTCACCTTATAAGAAGTCATCACTGAATTTGGAAATATAAGGAATAGTAGAGACTGTTTA
ATATGGAGCATCTCTGACATTGCCGCACAGAAAGCCTGTGTAGGGAATGTTTAGGTAATGCTTGAGCTATCCCTTGGTA
AAGAGATTTAGGTTTATAGAAATTCTATTTGGTACTTGAAGTTAATTGGTAAGTGATTTAAGTGAACTATGACTTAATT
CCCTCCCATATGGTAGATTATAAATTATGGTAGATTATAAAATCATAAATTCACTTTTATATATAAAAAATATGCAAAG
TTGTTGAAAATGTTGTATGCTTAAGAATCCACCTTTCTTTCATTTTTGCTTGAGGCTATGAATAATAGTCTTCTCGTGC
CTATAGCAATCTAGCTATAGAATTATTTATGAATTCACCATTCATTTCCTGTACTTTGCTGTAGCCAGATTTAAAGAAG
GAATGTAGAGGTAACCTTGCTTTGAGAGATTTAATTCAGAGCTTTAGGATTATTTACCTATTTTTATATCTTATAATGG
CCTCTGGACTATCCTATAGCAAAATATACTCTAATGACTCATCCATGTAGAGGACTGGAAAAGTCAGGGATTTCCTGAG
ATGTGTGGTTAGTCAAGTATTTTTTTACAAGTTTAGTTTAGGAACTTATTTATCCAGATTAGACAGGATAACATTTCAT
GTTCTACCTACCTATGAGCACCTATAATGAGGTACTTTTAGAACTCATCAAAGCATACATACAAATATTAATATACATT
GGATGCAGCTCCCTGCATTTACATGGTATCAGTGGGGAGGTATCAGTGGGGAGGGTTCATTATGTCCTTTCTAAGAAGA
GCAGGGAGGTCATGCAATACAGTGCATGCTGGCACTTTACATGAGCCTGGCCTGATTTATTTTGATGCTTATGAATGTC
TTGAGATATTCTGAATTTTATCAATTTTTAGTAAATACATAAAATGTATTTTTACATAAAATTTTTGTGTTAAAGGTAT
ATATATATATCTATCTTAAACACCAAACATTCAAACTGGTATGTTTTCTTTGCATTCTGTTATATAGCATATTATATGT
TCCCTTAGAATTAAGAGTAGATTTAGAAGACAAATTAAAACAACTGATAGAAAGGTCACTGTCTTCCAAGTACTCTGAT
ACATTTTTTAAGGGTAATGAGGACCTGCTCTATTCTTCATTCTTTTGAGCCCTTAAAGCAGCAGTCTCCAATGTTTTTG
GCACCAGGCACCAGGTTTTATGGAAGACAATTTTTCCATAAACTGGGGGCGCAGGGAGAGAATGGTTTTGGGATGAAAC
TGTTCCATCTCAGATCATCAGGCATTAGTTAGATTCTCATAAGGAACGCACAACCTAGATCCCTTGCATGAGCAGTTCA
CAGTAGGGTTCACGCTCCTAGGAGAATCTAATGTCCCTGCTGATCTGACAGGAGGCGGAGCTCAGGCAGTACTGATGCG
GGCTTGCCTGCTGCTCACCTCCTGCTGTGCAGCCCAGTTCCTGACAGGCCACGGACCGATATTGGTCCACAGCCGATGG
ATGGATCGGGGACCCCTGCTTTAAAGGGCACTTGGGCTTTGACTGGCACCTGGAGGACCCTGGCATCAGGGTCCCTGTG
CAGTCTGCCATTTAAGCTAACAAGGCCTCAGTCTACAGATGAATCTGATACTCTAAAGTTTGAGAACCAATGAAATAGT
GGAGGAAACTGAAGAAGATAATTTTATCTCCTTAGGATGTCTGTTTAAAGTCATTTTGCTGGTGACCTGCCTGGGATGG
AAGGATAACTAATCCTGCCGCTGCAAATTCTTTCTTTGTTATTTAGTAATATTGCAATGATCTCCTTTCTGTGTGACCA
CAGCGACATAGGGAAGTTCACAGTTGCCAGAGTAGCTTTGGATTGCTAAAGTTTTTTTGACGATGAGGTGTGATGAGGC
TGTGTTATTCCTGAGGGAATGAATCAGCATTGTCACTTTGTACAGGAAAGTATCCCAGGGTTGTTCCGGGCCCCAGGGC
ATTATCAAAATTACAGCCTTAGTTAGTTTGGTTTGGCTAGGGATCATGTAAGAGAATTATCTTCCCAGCATGCAGTAAA
GGAATCCTTCTAATAACTTGTAAACTTGTGATATGTAGCTTCGTGAAATATTTTATCAAAATTTGTGCTTATTTTTAGT
TTGCAGTAAACCTTTTTTAAAATTTGACTTTTTATATTTTATGGATGGCTTGAGCATCCATGTGTCAAGCCAGCACATT

Fig. 6.347

CTCAGCTCTTGCCTCAGAGCTGGAGCTGCCATCCTGTCCAAAGCCTGCAGCTGAATCCATATTTCTCATAATAAAGAAT
TCTAAAGACCTCTGATTATCAAATTTATAAACCCATAGTTGGTTACTTGTCTTACTTTAAGGAAGCTACGGAAGCACTG
AGAGCTTAAGGCACATGGGGGGCGCTGGGGATTCCCTTGGCTGGTTCCCAGGGCAGTTAATCCTCCTGCTTCTTACATG
TGCTCTTCGTTTTTCTTAATTATTTCAGTTGTTTTAGCTTTAGGTGCCAAATGATTTTATACTAATTGTATTTACACTC
GTTGAAAGCATGCTGGAGGTTCTGCAAGCAGAGAGAACAATTCTACCTGGTAGAGTTGGTTAAGCTATAATAAATGATT
TGAGTGTGGGTACTGTGAACAGGATTTAGAGAAATTGAAATTTCAGGCAGGAAGCTGCGTAAATATTTTTAAAGGATGA
TGCATATAAATAAATCCATAGGCCAGGTGCAGTGGCTCACTCCTATAATCCCAGCACTTTGGGAGGTCAAGATGGGTGA
ATCACTGACGTCAGGAGTTCGGAGACCAGCCTGGCCAACAAGGTGAAACCCTGTCTTTACAAAAAAAAATACAAAAAA
TTAGCCAGGTGTGGTGGCGCATGCCTGTATTCCCAGCCACTCAGGTGGCTGAGGCAGGAGAATTGCTTGAACCTGGGAG
GTAGAGGTTGCAGTGAGCCGAGATCATACCATCACACTCCAGCCTGGACAAGAGTGAAACTCCATCTCAAATAAATAAA
TAAATAAATAAATCCATAAAATGTAAATAGCAGCATGAACTTTTGAATATAAAATGCTGGAGGGTATATTTAACTTAGC
TTTATTTTCTGAAAAAAAGTATCAAAAGTACAGAATATAGCATTAAATTTTACTTGGCAAATGAATTATTTTTGTTAAT
AGCAAAGATGCCTAAGTTTGGGGCAGAAAGATTTATTCACATTAGTGATGCATTCAAAGCATGCGGTTTTTGGTTTCCA
AGAGCAGAGGCATTTCATTATATTAAGGTTAAGATGTATCTAGCTGTCAGTATACACTTTTTTATTTCTCTACTTTTAT
TTTGAAATTAAAATTTTCATAGCTACACTAGTAGATTGTATGTAGAATTTTATTTTTCTGTATAAACCCACACCTTCAA
AATAAGGATAAATTCATGTTTATCAAATGTGATTATATAGATATAGCTACAGAGATTATTTTATTCAACAAMAATGTAC
TGCAAGCCTACTAAATGTTATAATAAATATTATTTCAGGCACTTAGGACACATGGSTGGACAAGACAAGACAAATCCCT
GGCTCTTAAGAGCTGGCATTCTGCTAGAAAAGGTGGAGCATAATAAGTGAATTTATGGCATGTGATGGTACTAAGTGCT
ATGGAGGAAAATAATGCAGGGTGAGGGCATAGAGAGTGGAGTGATGAATGAGGCAGTTTTCTTGACAACTGAATATTAA
GTTAAAACCACCACTTCCCTCTGTCATTTCATGGAGAAATGTTTGTTTCTGAAGTCCTTTTGAAGATTTATGTTTATTT
CAGTTGTAACTTAGAGACATGGTGTAGCATGCTGTCATTTTCTAACTAACTCAAGGCTAAGCCTAGTAAAGCTGTAAGA
ACAGTGAGTGTAAGTCTTACTTACAGGATACATATCTATAGTGTCTGCCCCAGTCTTAACTGTTTCAGCTCCAGGTCTT
AATATTGGCTCTGATCTGCCATGTGGACTCCATCATAAGACACAAAAAGGCACAATACCTAGTGGACTTAGTTGGATTT
GGGAGGCAATGTATTCCTTCTTTGTGTGTGTTACTCTGGCCCATTTACTAAGTGATCTGAAAAGCTGCTAGTTTAGATG
GGGCACAGAACAAGAGAGTGTCACAAAAACTGCTAGTTTTGAGTGGGGCTCTACAACAGGTCCAGCCTGCTGTGCAAGC
TGCTCTGCACATGGGCCACATGATCCAGCAGATTTAATGGTGCTTGAAATGTCAGTGGCAGATAGGAATGTTGTTTGGA
GCCTTTGACAGAGCCCTCTGTGTGAATCACAGCACAGACTCTGGAGCAAGACCCTGCCATCATCCAAAGAAAGATAACT
AACTACTCTCCTTTTGAAAGAAAGATATAGGCCTGCTGCTGGGCCTTAGGAGATACTGACTGACTATGGGCCACCAAGT
TTCCATGTGGTTTAAGCTGTCTGCCCATCATTAATAGGGTATTATCTAACGCGCCAAGCCATATGTTGGGCATGTACGA
CATTTCATCATCAAATAAAAGTAGTGTAATACACGATCTATCAGGTCCGAGCAGACACTAAAGGCACAAATTACATAAA
GAAGTGGCCCTAATGCCACTCCTATTAATTACACTGCCTTCTTTCTCCCAGCCTACACATGTGGTCGCATGGAAAGTTC
CCTGCAAGTAGTTGACAGAGGGCCTGGTTTACGGATGGTTCTGCGTGATACGCAGGTACCACCGGAAGTATACAGCTGC
AGCACTACTGCCCCTCTCTGGGACATCTCTGAAGGATGGTGGTGAAGGGGAGTCTTTCCAGTGGGAAGAACTTTAGGCA
AGGTGACTCGTTGTTCACTTTGCTTGGAAGAGGGAATGGCCATATGTGCAATTATATACCAGTTCATGGGCCGTAGCCA
ATGATTTGTCTGGATAGTGAGGGACTTAGAAGGAATATGATTGGAAAACTGGTGAGAAAGAAATTTGGGGAAGAGATAT
GTGAATGATCTCTCTGAATGGACAAAAAAGGAATGCTCACCAAAGTGTGACCTTGGCAGAGGAGGATTTTAATAACCAA
GTGAATAGGATGACCCATTCTGTAGATACTAGTCAACTTGGTTCCCTAGCCACCCCTGTCATCACCCAACATGCTAAGA
ACAAAGTGGCCATGGTGGCAGGGATGGAGGTGGCAGGATGTGCTTAGAAACATGGACTTCCACTCACCAAGGCTGACCT
GGCTATGACTATTGCTAAGTGCGCAATCCACCAGCAGCATAAACCAACACTGAACCCCCATATAACACCATTTTGGGGG
GATCAGCCAGCTACCTGATGGCTGGTTGATTACATTGGACCACTTCCATGGTGGAAAGGGTAGCATTTTGTCCTTAGTG
GAAAAGGCACTTTCTCTGGAAACAGATGTGCCTTCCCTGCAGTTTTTCTGCCAAAACTATGGTATTCCATACAGCATTG
CCTCTAACCAGGAACTCACCTTACTGGCAAAGAAGAGCTGCACTGGGCTCATGCCCATGGAAGTCCCTAGTCTTACCAT
ATTCCCTAACATCCTGAATCAGCTGGCTTGATAAATTGGTAGAATGGCCTTTTGAAGACTCAGTTACTCAGCTAGGAGG
CAAGACCTTGCAGGGCTGGGGCAAGGTTCTCCAGAAGGCCATAAAGGCCATATATGCTCTGAATCAGCATCCAATATGT
GGTGCTATTTCTCGCATAACCAGAATTCATGGGTCCAGGAATCATTGGATAGAAATGGGACTGTTACGACTCATAATTA
CCCCCAGTGACCCACTAGCAAAGTTTGCTTCCTGTTCCTGCAAATTTATGTGCTGCTAGCTAGAGGTCTTAGTTTCAGA
AGGAGGAATGCTTCTATCAGGAGACACAACAGTGATTCCGTTGAACTGGAAGTTAAGACCTAGCCACTTTGAGCTCCTT
ATGCATCTGATTCAATCATCCAAGAAGGGCATTACAGTGTTGACTGGGGTGACTGATCCTGACTACCAAGGGGAAATTG
GGTTACTACTCCACAATGAAGGTAAGGAAGAGTATGTGTGGAATAAGGAGATCCCTTAGGGCATCCCTTAGTATTAACC
ATGCCCTGTAATTAAGGTCAGCACAAAATAACCCAATCCAGGCAGGACCACTAATAACCCATACCCTTCACGAATGAAG
GTTTCGGTCACCCCACCAGGTAAAGAATCATGACCAGCTGAGGTGCTTGCTGAGGGAAAAGGGAATACAGAATGAGTAG
TAAAAGAAGGTAATTACAAATACCAGCTATGACCATATGACCAGTTATAGAAATAAGGACTATAATTGTCATGAGTATT
TTCTTATGAATGCATTTATATGTATATATACATATATTAAGCATATATCTTCATTTTCTTTTTCTTATTCCCTTATATA
ACATAAGAGGTATTAACTTATCTTCATTTTCTTTTTCTTATTCCCTTATATAACATAAGAGGTATTAACTTTATATTAG
TATTTAAGTATTTATTTTATATCATAGTATTTAAGTTATAGGCTATCAGGATAAGAGTAAACATTACTCAAAAACTTTA
CTTTCACTTCTGGGGAATGTGTTAGTGTGCTTTTAGTTGTATGCAGGATAGTTGTAGCCTGTTTGGTAGAATTATGGCC
TTATGGAGATTAAATATGGTTAAAGGAGATGCTTATGGGTACCAGGGTGACAAGGGGCAGAATTTGTAATGGTTAATTT
TATGTGTCAGCTTGACTAGGCTAAGGGATGCCCAGATAGCTGGTAAAACACTATTTTGGGGTGCGTCTGTGAGAGTGTT
CCTGGAAGAGATTAGATTAGCATTTGAATTGGTAGACTGATTAAAGAAGATTGCCCTTACCATTGTTGGCAGGGATCAG
TCAATCCATTGAGGACCTCAAAGAGAAGAACAAAAACATTGGGGGAAGGGGCAAATTTTGCTTTCTTCGGAGCCTGGAC

Fig. 6.348

ATACATATTCTCCTGCCTCTAACATCAGGGTTCCTGGTTGATTCTCTGGCCTTTGGACTTGCTTTCCTGGTTCACCTTT
GCAGACATGGGACTTCTTGGACTCCATAATTGCCTGAGCCAATTCCTATAATAAATAAATGTGTCTTTTTCTCACATAC
ACACACACACTCATACATATGTCTATTCTATTTCTCTGGAGAACCATGATTAATACAGAGAGAGAAAAGATTAGCACAG
ATGAAGTACATGTTCTCAGTTATGTGGTAGTACCTGCCCACCCTTCCCCCCATTTCATTAGCACTCAGAAGAGAGGGAC
ACAAAAGTGGTCTTCCTGCCTTCAGTAGTAGCATATGTTGGGCATAATTTAATTTATTCTTGATGATCCAGGGTAGTTG
TAACAAATGAGCACAATTGATCTATATATAATAAAATGATGGCTTTGAGTTTGTAAAGGTATGCATGGCCTCTCAATAA
AAAATAAATACTTACAAAGTTGTCTTTATAAATGTGTGCCAGGCACTGAGTGGACTGTGTTGATTTCCTGGTTCATGTT
TAGTGTTCACTGCTCAGGTTTTCACCTCTATAAGGTACTTGTAATCATAGTCAGTATAAGGTGAGGGCTCTAGAAACTG
CCTGGTTTTAAGTGCTGGCCCCAGCACTTACTGGCTAGGTGATGTTGGCAAAGTTACCTACCTTCTCTGAGGTACATTT
TCTTCATTTGTACAGGATTATATGAGTATGTCTATGTAAATATTTATGTGTATAAAAGATGTCCCCAAGGGACATTTTC
TATCCCCCAGCCTATCCCAAGGACACAAAGACTTACTTCCCACCTATATGGCTCCATGCCATCCATGAATGGAACATAG
CCTTAAAATGTCGATAACAACAGTATCTTCCTAAAAGAGTTATGAGGATTAAATGAGATGATTCACATAAACCATTTAA
CACAATGGCACCTAAATCCTCTAAATGTTGTGCCTTGCTGTATTCCTGTTTGTACTTTGTAAGTTTGAAATAATTGAAG
TGCCTAGGGGAAGCCAGATAACCAAACATATTAAATTAATAACCTTTAATATTTTGTAGGGGCTTAAGTCTCTAAGTAG
GTTGGGAGGGTTTGGGGAGGAACGATTAAAAGATTTGTAGAGATAAAGACAAAAAAGGTAGAATGCGATACATGCTAAA
TGGGTGGTACAAAGTAGTATAGAAGTTTACAGGAGAAAGTGGGCAGTTTCATCTGGTAATTAAGAAAGACTTGATGGAA
GAGGTAACTTATATTGGGCTTGAAGATGAAAGGGTTTCAACAAAAATGTTATATAAGCTAACCTCTTTGCCCCTCTGTG
CTGTGCACTGTACCATCCTGACAGCAACTTTCTGATCATTCCTGAACCTTCAAGGACTCTACTTACAAGTAATGGATTA
GTGTCTTTGATGAAAATCTGCTGAGGAGCTGCAGACTCCTACCTCCCAATTTAAATGTGACCATATGCCTTCAGTCCTA
AAGAAGAGTAGAAAGTTAAATAACTTCCTTGAGATTCAGTTTCTTAAATGCTAACATTTGTTCATTTAAAAATCAACAG
TCACCACCACTTTCCTGTAACAGCATCTGAGATGGAAGAGGCTATGGAGGCCTGCCAGTCCACTAAGGCATCCTTTCCT
GGCTTTTCTAGCCAATCTGGACTCTTTAAGTGTCAGGAGATAACCACTCTCCAAGACAGGCCTTGCCAGTATTCTTGGA
CATCTGCCCTACATGAAAGGCCCTACTTATATCCAGTAGAACTCAGACTCTTTGTTGCACCTTCCATACAACAGATCAC
CCTTTTCCTTGAAGGAAGAGCTCATCATCTTATTCTTTTGCAGGGTCAACAGCCTTAATTTCCTTCACCTTCAGCTTCA
TATAAGCCAATTAGGGTTTTTGTAAGGCTAAGTCAATTCTGTTAACACTGCTTGTCTACATGCATATTTCCTTCCTTAA
ACGAACTCTAATAATTATCCAGTATCTAATAATTATGCCTTCCTTTCAATATATGTTTGTTTATTTGATTCCACTGTAG
AAATACAATAATATGTGCTAAGAACCTATATAGTTTAAATTTTTCATTTCTATATGCTTACCTATCTGTAGATAAAGG
TTCATAAAGGCATTTATAGACACTATAAAAGTTCACCAGAAACTGCCTTTTAAAAGATAAACACTATTGTTTTATCTAA
AGAAAACAAAAAAATAACAAAAAAATACTGTACAAACCTACTCCCTACTAGTCTAAACAGCTCTGCTCCTGTAGTTTGGG
AGCAGAAATTTAAGTGTGCAAATTTGTATTTCTATAGTTCCGATAAAAATAATAGAATTTCTCAGTTGAAAATGTCTTAA
GCCTCTCCTCTCCTTCCTAGCTCCATTAAAATAGCCATTGAATAGTATTGGGTATTTCTTTCTTAAAAAAAGATATATA
TTTCCAAATATATTTTCTATGCATTCGTTATATATTTTCTATGCATTCGTTAGAAAAAAGATCAAATACCTGTGCTTTT
AACCTTTTTCTTTTCTTTTCTTTTCTTTTTGAAACAGAGTCTTGCTCTGTTGCCTAGTTTGGAGTGCAGTGGCACGATA
TAATGGCTCACTGCAGCCTTGAACTCCTGGGCTCAAGCAATCCTCCTACCTCAGCATCCCAAGTAGCTGGGACTACAGG
CACGCCCTACCATCCCCAGATAATTTTTTATTATTTGTCGAGATGAGGTCTCCCTATGTTGACCAGGCTGGTCTTGAAC
TCCTGGGCTTAAGCAATCCTCCTGCCTCGGATTTGCTTTTAGTCTTTACAGTGATTAAGTGGAAAGAGAATAAAGCATC
AAAAGTTTTTTAATGATTATCTTGTAGCTCTGGGTCTGCTATTTACAAGAAGTAGGAGAGAGGCAGAATCTCTCCCTGC
CTAAAATTCACAGGTCTAGGGCAGTAGGGAGAGAGTGGCAGAATCTTCACCAGAGGGTATACAGACAGCCAAACACAAC
ATCACTGTGAAGCTGTGAGCAAGCAGGCAGGAAGAGCAATATCCCTGTACAGTATACAATGACTGCCACGATACTTGGA
AAAGAAAATGGAAAACAATGAATAAAGCTTGGACTTTCAGAGCTATACATGAGCAAATGAGCAAATCTAAACTTGTTCA
TATGATTCCTTATTGTTCTTGTACCCTCTTTGAGTACAAACAATCCTGTAACACAGGATCCTCACTTTATATAGTGCAG
GGTAGGTAATTCACAGTTATCAGGAATACAAAACCTTATGCTCTGGATGTGTTATAGATACTAAGAATAATGTCATATT
CTGCTGAGCTCATGGCAACTCTAGAGGAGAGGTTAAAGATCCAATTCTTTCACTTTAGAGAAAGCTGAGACCTACAGAG
TGAAATGACCTGCCACATGTTAGTAGCATTAGAATTCACTCCCCAAGATTCATTCCAGTGTTGTTCCTGCTCTTATGTT
ATCTGATTTATTCTCTCCTGGATATTGTCAGGTAATGATAAGGGCAGCAGAGAAGTTTAGGGGAAATTACATCCTAAAT
CCAGAATTTTAAGAATCAGATAAACTTCTCACAAACAGTTTTGCTGATCTTTGGCCTTTTGTCTTTTTTACAGACTCTG
AACTTGCCTTGATGTACAATGATTCCTCAGTCTTAGAGAACCATCATTTGGCTGTGGGCTTTAAATTGCTTCAGGAAGA
AAACTGTGACATTTTCCAGAATTTGACCAAAAAACAAAGACAATCTTTAAGGAAAATGGTCATTGACATCGTAAGTAGC
TGATAAAAGCCAAAGAAGAGAACTGTGATGCAAGTTGTTTATAATTTAGACATAAGAACAAGATGAGTATTAGGTAAAA
GGAACTGCATTTCAAAACATATTATGGCCCTTTATGTTATAGAAGCTGCCCGTGATGCTGGCTGTGATGTTCTGTAATA
GGTTTTTCACTTCTAGCAGTTTGGACTTGAGAATAATGTCAGCTCACCCTCATCATTTATTTTCTGGGCCCCTCCAGTC
TGGTGGCGGGCAGAGAAAAATGACTAACAAAAGCAGATTGTGTGGGCCACAGCTCAAATGGATTTTTTCCCCACCTTTT
CTCATCAGTAGACAGTGCCATTTAGACATCCATGACTTTACTCTTTTTTCTATGCATCTTATTCAGTGATTATGAGACA
CAGGAAAATCTCTAGCTTTCAAAAACTTATAAACTTGTGATGATGTCTTATCCATGGAGATGTCACCCATTTTTCACCA
TGAAAGTGGTTGTCAGTGCCTAGCATTTCTGTATATTACACACATTTATCTGGGCTTTGGGAAAACTTGATAGCAAAGG
GGAAAAGACTCTGCCCCCAAGGAGTAGTAAGGATTTTCCACTGTCATTAAAAGGCATAGTGTTGTTTTATTCCTTTTTC
ATTCTTATATTCTGCGTAATATTTTCATGTGTAAATTCTGTTTTCTCTGAACTTAATAATATACTCTATATTTTAAGGT
ACTTGCAACAGATATGTCAAAACACATGAATCTACTGGCTGATTTGAAGACTATGGTTGAAACTAAGAAAGTGACAAGC
TCTGGAGTTCTTCTTCTTGATAATTATTCCGATAGGATTCAGGTAAAGCCTTGTTTGAGTTTGCTCTGTGTGTGTGTGT
CTGTGCACATGTGCACATGTCTGCGTGTTCAGCTTTGATAAGATGTATTTCTTCCTTCTCCCACCTTATACTTTCAGCA

Fig. 6.349

ATTGTAGGCAGGATTTTTATCCAAATTTTTATTCCTGAGAATTAACCAGGTAAAATTCTACTGGTCTTTCTGTTTGCAT
CTACATTAATTAAAAAAACTAACAAACAAACACCCCACAGAACCAGCCACTTAAGCAGCTC \ATCTAGTCAGCCATG
CACATAAACAGTTTCTCTTAAGCTATTTAGATGCAGTAGAAGTGGCATAATTTGGAACTATTAATACAAGTGTGAACTA
TACACAGACACATCATGGTTGAGCTGTTTGGAATAAATCTTACACTACGTGTATTTTTAAGTGTYGCAGTCATCCAATG
TGAATTTCTAGTTTTTTTTGTTTTTTTTTTAAAAAAAAGGAACAGGAGTGAATAGAGAATGCATCCATCTATTTTAGG
TTCTTCAGAATATGGTGCACTGTGCAGATCTGAGCAACCCAACAAAGCCTCTCCAGCTGTACCGCCAGTGGACGGACCG
GATAATGGAGGAGTTCTTCCGCCAAGGAGACCGAGAGAGGGAACGTGGCATGGAGATAAGCCCCATGTGTGACAAGCAC
AATGCTTCCGTGGAAAAATCACAGGTAATGCATGAAGTGTATAGCTTTCAGAGAGAACAGAGCTACCGCTTTAGCATTT
GGTTACTTTGTATTACATATGATAGTATTTTACTGGATTTTTAAAATTACTTTGTTTTTGACAAGCTCAATTTCACCTT
AGTATTTATGATCCAAAGAACTTTCATTCTTATGACTTACATTCATATAGTCATATATATATTCTAAAGACATATTCAT
TTATTATGACTATATTCATTTAATATATTCATATACATAGAGCACATGGCATTATTTCAGTTATCTGGATTCACCTACA
AATTGGTGATTGTAAAATAAGCCCTACCATGTCAACAACTGGAAAATTTTTTATGCTATAGAACATGCTCTTTAACCAA
AGGTTCTAGAAGCTAATTTTGACCAGCTAGTAGCAATACTTTACTTTAAATGGTCTGTTGTTGTTGAAAATAGTGACAA
TTTTACCAAACTAAGTTTAGTAGTCTTCTGTTCAGTGTTTTATT[illegible]GTGGGCCATGATCTAATTAAGCTTTTCCATTGTT
TCTTAGTCCCAAGTCCTCTACTCATACTGGATTTTTTTCTTAACTAGGTGGGCTTCATAGACTATATTGTTCATCCCCT
CTGGGAGACATGGGCAGACCTCGTCCACCCTGACGCCCAGGATATTTTGGACACTTTGGAGGACAATCGTGAATGGTAC
CAGAGCACAATCCCTCAGAGCCCCTCTCCTGCACCTGATGACCCAGAGGAGGGCCGGCAGGGTCAAACTGAGAAATTCC
AGTTTGAACTAACTTTAGAGGAAGATGGTGAGTCAGACACGGAAAAGGACAGTGGCAGTCAAGTGGAAGAAGACACTAG
CTGCAGTGACTCCAAGACTCTTTGTACTCAAGACTCAGAGTCTACTGAAATTCCCCTTGATGAACAGGTTGAAGAGGAG
GCAGTAGGGGAAGAAGAGGAAAGCCAGCCTGAAGCCTGTGTCATAGATGATCGTTCTCCTGACACGTAACAGTGCAAAA
ACTTTCATGCCTTTTTTTTTTTTTAAGTAGAAAAATTGTTTCCAAAGTGCATGTCACATGCCACAACCACGGTCACACCT
CACTGTCATCTGCCAGGACGTTTGTTGAACAAAACTGACCTTGACTACTCAGTCCAGCGCTCAGGAATATCGTAACCAG
TTTTTTCACCTCCATGTCATCCGAGCAAGGTGGACATCTTCACGAACAGCGTTTTTAACAAGATTTCAGCTTGGTAGAG
CTGACAAAGCAGATAAAATCTACTCCAAATTATTTTCAAGAGAGTGTGACTCATCAGGCAGCCCAAAAGTTTATTGGAC
TTGGGGTTTCTATTCCTTTTTATTTGTTTGCAATATTTTCAGAAGAAAGGCATTGCACAGAGTGAACTTAATGGACGAA
GCAACAAATATGTCAAGAACAGGACATAGCACGAATCTGTTACCAGTAGGAGGAGGATGAGCCACAGAAATTGCATAAT
TTTCTAATTTCAAGTCTTCCTGATACATGACTGAATAGTGTGGTTCAGTGAGCTGCACTGACCTCTACATTTTGTATGA
TATGTAAAACAGATTTTTTGTAGAGCTTACTTTTATTATTAAATGTATTGAGGTATTATATTTAAAAAAAACTATGTTC
AGAACTTCATCTGCCACTGGTTATTTTTTTCTAAGGAGTAACTTGCAAGTTTTCAGTACAAATCTGTGCTACACTGGAT
AAAAATCTAATTTATGAATTTTACTTGCACCTTATAGTTCATAGCAATTAACTGATTTGTAGTGATTCATTGTTTGTTT
TATATACCAATGACTTCCATATTTTAAAAGAGAAAAACAACTTTATGTTGCAGGAAACCCTTTTTGTAAGTCTTTATTA
TTTACTTTGCATTTTGTTTCACTCTTTCCAGATAAGCAGAGTTGCTCTTCACCAGTGTTTTTCTTCATGTGCAAAGTGA
CTATTTGTTCTATAATACTTTTATGTGTGTTATATCAAATGTGTCTTAAGCTTCATGCAAACTCAGTCATCAGTTCGTG
TTGTCTGAAGCAAGTGGGAGATATATAAATACCCAGTAGCTAAAATGGTCAGTCTTTTTTAGATGTTTTCCTACTTAGT
ATCTCCTAATAACGTTTTGCTGTGTCACTAGATGTTCATTTCACAAGTGCATGTCTTTCTAATAATCCACACATTTCAT
GCTCTAATAATCCACACATTTCATGCTCATTTTTATTGTTTTTACAGCCAGTTATAGTAAGAAAAAGGTTTTTCCCCTT
GTGCTGCTTTATAATTTAGCGTGTGTCTGAACCTTATCCATGTTTGCTAGATGAGGTCTTGTCAAATATATCACTACCA
TTGTCACCGGTGAAAAGAAACAGGTAGTTAAGTTAGGGTTAACATTCATTTCAACCACGAGGTTGTATATCATGACTAG
CTTTTACTCTTGGTTTACAGAGAAAAGTTAAACAGCCAACTAGGCAGTTTTTAAGAATATTAACAATATATTAACAAAC
ACCAATACAACTAATCCTATTTGGTTTTAATGATTTCACCATGGGATTAAGAACTATATCAGGAACATCCCTGAGAAAC
GGTTTTAAGTGTAGCAACTACTCTTCCTTAATGGACAGCCACATAACGTGTAGGAAGTCCTTTATCACTTATCCTCGAT
CCATAAGCATATCTTGCAGAGGGGAACTACTTCTTTAAACACATGGAGGGAAAGAAGATGATGCCACTGGCACCAGAGG
GTTAGTACTGTGATGCATCCTAAARTATTTATTATATTGGTAAAAATTCTGGTTAAATAAAAAATTAGAGATCACTCTT
GGCTGATTTCAGCACCAGGAACTGTATTACAGTTTTAGAGATTAATTCCTAGTGTTTACCTGATTATAGCAGTTGGCAT
CATGGGGCATTTAATTCTGACTTTATCCCCACGTCAGCCTTAATAAAGTCTTCTTTACCTTCTCTATGAAGACTTTAAA
GCCCAAATAATCATTTTTCACATTGATATTCAAGAATTGAGATAGATAGAAGCCAAAGTGGGTATCTGACAAGTGGAAA
ATCAAACGTTTAAGAAGAATTACAACTCTGAAAAGCATTTATATGTGGAACTTCTCAAGGAGCCTCCTGGGGACTGGAA
AGTAAGTCATCAGCCAGGCAAATGACTCATGCTGAAGAGAGTCCCCATTTCAGTCCCCTGAGATCTAGCTGATGCTTAG
ATCCTTTGAAATAAAAAATTATGTCTTTATAACTCTGATCTTTTACATAAAGCAGAAGAGGAATCAACTAGTTAATTGCA
AGGTTTCTACTCTGTTTCCTCTGTAAAGATCAGATGGTAATCTTTCAAATAAGAAAAAAATAAAGACGTATGTTTGACC
AAGTAGTTTCACAAGAATATTTGGGAACTTGTTTCTTTTAATTTTATTTGTCCCTGAGTGAAGTCTAGAAAGAAAGGTA
AAGAGTCTAGAGTTTATTCCTCTTTCCAAAACATTCTCATTCCTCTCCTCCCTACACTTAGTATTTCCCCCACAGAGTG
CCTAGAATCTTAATAATGAATAAAATAAAAAGCAGCAATATGTCATTAACAAATCCAGACCTGAAAGGGTAAAGGGTTT
ATAACTGCACTAATAAAGAGAGGCTCTTTTTTTTTCTTCCAGTTTGTTGGTTTTTAATGGTACCGTGTTGTAAAGATAC
CCACTAATGGACAATCAAATTGCAGAAAAGGCTCAATATCCAAGAGACAGGGACTAATGCACTGTACAATCTGCTTATC
CTTGCCCTTCTCTCTTGCCAAAGTGTGCTTCAGAAATATATACTGCTTTAAAAAAGAATAAAAGAATATCCTTTTACAA
GTGGCTTTACATTTCCTAAAATGCCATAAGAAAATGCAATATCTGGGTACTGTATGGGGAAAAAAATGTCCAAGTTTGT
GTAAAACCAGTGCATTTCAGCTTGCAAGTTACTGAACACAATAATGCTGTTTTAATTTTGTTTTATATCAGTTAAAATT
CACAATAATGTAGATAGAACAAATTACAGACAAGGAAAGAAAAAACTTGAATGAAATGGATTTTACAGAAAGCTTTATG
ATAATTTTTGAATGCATTATTTATTTTTTGTGCCATGCATTTTTTTTCTCACCAAATGACCTTACCTGTAATACAGTCT

Fig. 6.350

TGTTTGTCTGTTTACAACCATGTATTTATTGCAATGTACATACTGTAATGTTAATTGTAAATTATCTGTTCTTATTAAA
ACATCATCCCATGATGGGATGGTGTTGATATATTTGGAAACTCTTGGTGAGAGAATGAATGGTGTGTATACATACTCTG
TACATTTTTCTTTTCTCCTGTAATATAGTCTTGTCACCTTAGAGCTTGTTTATGGAAGATTCAAGAAAACTATAAAATA
CTTAAAGATATATAAATTTAAAAAAACATAGCTGCAGGTCTTTGGTCCCAGGGCTGTGCCTTAACTTTAACCAATATTT
TCTTCTGTTTTGCTGCATTTGAAAGGTAACAGTGGAGCTAGGGCTGGGCATTTTACATCCAGGCTTTTAATTGATTAGA
ATTCTGCCAATAGGTGGATTTTACAAAACCACAGACAACCTCTGAAAGATTCTGAGACCCTTTTGAGACAGAAGCTCTT
AAGTACTTCTTGCCAGGGAGCAGCACTGCATGTGTGATGGTTGTTTGCCATCTGTTGATCAGGAACTACTTCAGCTACT
TGCATTTGATTATTTCCTTTTTTTTTTTTTTTAACTCGGAAACACAACTGGGGAAATATATTCTTTCCCAGTGATTAT
AAACAATCTTTTTCTTTTTTTTAAGTCCTTTTGGCTTCTAGAGCTCATAGGAAAATGGACTTGATTTGAAATTGGAGCC
AGAGTTTACTCGTGTTGGTTATCTATTCATCAGCTTCCTGACATGTTAAGAGAATACATTAAAGAGAAAATACTGTTTT
TTAATCCTAAAATTTTTCTTCCACTAAGATAAACCAAATGTCCTTACATATATGTAAACCCATCTATTTAAACGCAAAG
GTGGGTTGATGTCAGTTTACATAGCAGAAAGCATTCACTATCCTCTAAGATTTGTTTCTGCAAAACTTTCATTGCTTTA
GAATTTTAAAATTTCACCTTGTACAATGGCCAGCCCCTAAAGCAGGAAACATTTATAATGGATTATATGGAAACATCCT
CCCAGTACTTGCCCAGCCCTTGAATCATGTGGCTTTTCAGTGAAAGGAAAGATTCTTTTCTAGGAAAAAATGAGCCTAT
TTTATTTTATTTTATTTTATTTTTTGACACAAACTGTAGATTTTAGCAGCCCTGGCCCAAAGGAATTTGATTACTTTTG
TTTTAAACAGTACAAAGGGGACACTATAATTACAAAAACATCCTTAACTGATTTGAGTTGTTTTTATTTCTTTGGATAT
ATTTTCAGAGTGGTAAATTGTGTGTGAGAATTACAAATGATTATTCTTTTAGTGGTTTCTTAGCCTCTCTTACAGCCCA
CGGGGATAGTACTGTACATCAATACCTTCATATGAAATTTTTATATGCAATGAAAATAAAAGCATGGGTTGATTCTGCC
TATTTATGACTCAATCTTTTACAAATAAAAGATTATTCATTTTAAATTATAGTTCAATCAGCATGTCTCTTAGGATACT
GAACGTGGTTGAAATGAAAGGATAGTGACATCATAAGTTAGTACTGATATTCATAACCAAATAAAGCCAACTTGAGTAA
TTTTGCTACATTAAAAATTACCAAAATTACTTAGATGGCCTATAAGATTAAGCATGGTGTTTTCTAAGCAAGCTTTGAA
AGGGGCCTTCCATACTTACTTAATTGAATATTCTGGGATATTGAAAATTATTCAGATACTTGACAATTATTTTTGGTTA
CCTACTCCGCAAACTACAAAGTTTTAAGGACTCAACAATAAGTTAATGAGACACAGTGTTTGCTTTCATGGAGCTTACA
GTCTGGAGGGGACAAAGGCTTAAACAATACTCATATAATTATATATGTGATCAGTACAATGAAGGAGCTCAGTGGGGTA
AATAAGCAGGAACCTGAACTTGATCTGTTCCGGAGGGCCACAGAAGGCTTCCTTGAGGCYTTGAGAAAGTGATTTGCAT
CTGAGTTCTGAAGGATTGTAAGAGGTAACTAGGGAAAAAGTTGACAGGAAGAGGAAGGGGATCCAGACAAGAAACATTT
GCAAAGATCTTGAGGCATAAATGAGCTTGAGACATCTGGAGAAACTGAGGAAAAGTGAGAGAGTAGGCAGGGCCTGGAG
CCGCAGAGCCATTGCTAACCATCCTGTGTGAGATATCCCCCATTCTGTAGCTTTATTCTCATAACCCTGCTCAATTTTC
TTTATAACACTTCTCACAGATTTATATACGTGTTTGTTTTTGTTATCTGTCTCTCCCACCAGACCACAGCTCCATGAGA
GCAAGGTCTTTGCTTACCAATATATCACTAGCACTTAAAACTATGCCTGGTACACAGTAGGTTCTTAATATGTGTTGAA
TATAGCCATCAAATTGATATTGGATATAATTCAATCTGATAAGATATTTTGAGATATTAAAGAGTTTTTAACTTGATAC
CATAAAAACTTTGTTTGTTTTTTGTTTTTGAGCTTACTAAGATCCTGGATAAAGAGTTTAGAGTTTCCTATCTCTTTGC
TAACTAAAAACTCTGTTTGCTTATTCCTCACAAATTCTACTTTTTTCTAAATGACAATCCATTTGTCATGATAATGAGA
GTAAAGAAATCAGCACAAATTTAATCCCCAGATCATCCCCAGACCATGCCAGCAGAATAAGGGTAATTAAACAGAGCAT
CTATGCTTAGCCTCTCCACCATTTCTCCTGCCACAACAGTCCTGACAGCCAACAGGTGCCAAATTTGTGCCTTCCTGGG
AATAACTGTTTTAAACTCAAGCTCCCTTCCCCAAAGCCATGACCCCAAAGTGACACTATGGAACTAAGGAAGCAACTCC
CTTCTTTTCCTGACTTGCCACGCTTGCTGATTTAGGCTAATTTGGGTGGTGGTGGGCCTGAACTCACATTAAAATCTCT
GACCTGGAAACCTTTCCTCAGGCACACGGCTTTGGACCCACAACAGCAACATTCCACCAAAAAACAAACCAAAACCAAA
AACATTCCCTGTTGCTAGAGAGTACCACCTGTCTACCAAGGGGAAAACAACCTTGTGTCAGGGGAATCATACCAGGGCT
TTCCCATCCTTCTGATTTGGGTCCTGCATCCCACCCAGCTACTCCGAGAGCTCCAAATACTCTAGGTCAAACTCAGTGC
TATGGGTATAAATCTTGAATTTGTACACATAGGAAATACTACTTTATTTCCTTTAAATCAATTAATCTGGACTCGGGGC
TCCAGCCAATCACACTATTGGAAATTCCCATCTCTCATTACTGCCACAGCTCCTCTCTCTCCCAACATAAAATTTATCT
TATCTCCAATATAATCTGAGTATCAGGCCTCTGTGTTGTTCCAGCAGAGGTTCCTTACAGTCCCTCAGCTATTAGCTTC
CTGGTCACATGTGGTGTACCAGGAATATATGCTGGTTTGGGGCCCTGCTTCCACACAGTGTGTGCATCAAAAGAGCCTA
TCCTTCTGGTGTTTTATTACACCTTGCTGTGGTCTGAATGTCTGTGTTGAAATGCTAACCCCTAGGTGATGCTATTAGG
AGATGGGGGCCCTTTGGGAGATAATTAGGTTATGAAGGCAGAGTCCTCATGAATGGGATCAGCGCCCTTATAAAAGAGG
CCCAAGGGACCTTGTTCAACCTGGCCACCATGTGAGGACTCAGCTAGAAGGTGCCATCTGTGAAAATGAAAGCAGGTCC
TCACCAGGCACCAAATCTGCCAGAACCTTGATGTTGGACTTCCCAGCCTCTAGACTGTGAGAAGTAAGTGTGTTGTTTA
TAAGCCACCCACTTTATGGTATTTTCTTATAGAAGTCTAAGGAGACTAAGACATACCTACTGAAATTACTACAAAAAAA
AGCAGTTCTCTTCTTTTCCTAATTCTCAACATATTCTCCTTCTTCTCTCTCCTTCCTTCTTTTGCTCTCCAATGAGATC
AGGCTTAAAACCAAAAACGAAACAGACTAGAGGTAGTTCTGACTTCCATTTGCTTCTGCTCTCCACTCTGCAAAAACCC
TGGCTATTATTTGAAATATGGAGACGAAAAAAGATATTGGAAGAGCATACATTAAATAATAGTCCATTAACCTTCCACA
CATGGTTGGCAACATCTAGATCCAACAATGTTCACTGAACATTTTGAGATGTGGAAGTTGAGGAAGTTGTCTCCAAGA
GGAAGTCATCAGGAACTCCCATACTTCCTATGTGGGAACACAGGGAAAGAGGCATTTTTTCCTGAAGTCTCTGTGTTCC
AGTGCTATCCCTGAATGTCTATTCCCAGCTCTCGCTTAGCTGTTTCAATGACAAGATATAGCACTTGAAAATTTTATAA
AGTGAGAGTCATATTTGCTCCCTGCTGCAAGCCCCCACCCTGCCATTCCAGGACCCTGCTATGGTCCACAATTGGCATT
ATGATTCCCTCTATTTTGCAGCTATGAAAAGTGAGGCCCAAGAAGGTTAATTGACTTGGCTAAGATTATTCACAGGCTA
AATACTGAGATTAATGATTTGCAAACTACAGATTTGACAGAAGTCCTAATGCTATCTCTACATCCTATTTCTGTTGAGG
ACCAAAATTGACTGTTGCATTGCCTTTGATTTCCTTTGACCATCCTTCATTACAGATTTCAGTAATTTTTATGGTCCAA
AGCTAGGTGACAGATATTACATCATATGCATTTGTTAACTCACCCTATGTCTGCATAGCCTTGCTATATGGTCAGAATT

Fig. 6.351

CTCCAGATTGACTGGGGAACTTGGAGTTAAAGAGCCCCTGACCCCCTAAAAAATTATAGAAAATGAAAGAAGCTGTCAA
GAAAGTAAGGAGCAGAGATAAGAGCAGAGATGGGAGYGTGCCTCTGCCCGGCAGAGACTCACAACATGAGGCAAGACAG
ATCTTAGCTGAACTTCTTGCAGGATGTATGCCTCAATGAAAGGAATGGAGCACGGGCAGCATCCGGCTTAGGCTGGAGC
CCCTTCAACCATCATGGCTGTTTTAGCAGGGTGTTTGCCAGCTGCTTACAAATCCCAAGCCAACAGACATGGTTTCAGG
ACCTGAATCATGCAAACATATTTTCTGAAAGGTTCTATCACCTGAGAATTGCTTTTCCTTCGCTCCTTGTTTTTGAACC
AAAAAGCCGACCAAATGTATAGTGGCAAACACTTGCTCAGCACCCATCCATGCAAGGCACTGTTTTACCACCAGGCTGC
ATCAGTTAGAGAACCAAGCCGTCTCTCACCTTGCAGCTTCTTCACACTTTGCTCATTTTCTCTCTAACACTGATGGTTT
CTGTTTCCTGCTATTCAGTTACAGCATCTGGGAAGAGAGTGGCAGAGAACGCCAGGCAACTGCACCCTGCCACAGTGGG
TCAAGCGGAGGCTGGGTGGTGACACCCGTCTCTACCCAGCAGAAGTCAGTGGTTCATGGGTGGAGAACAAAGCTCAGGA
CAGCTGCTGCAGTCCAGGGAACTGTCCACCATAGAAGACTCTTGGGAAGCAGCCCCTGACCCCAACCCCCTGTGCTTTT
TGAAGCCGTGTCTGGTATCACATGGAATTATGCAGTAGTCATAGAATATCTTTGAAAACTTATATTCTAAAAATAATTG
CTGAGATCAGCGATTAAAATATCTAATAAATGGACTGGAAAAGTTGAAAACAAGCAAAGGTGAGAGAAAACAATTGAGG
AAAACTGGGAGAAAGTGAAGGAAGTTGGACCCTTTGTACTACAGCATCCAAGGACAGTGATGATATCTTCTGTTCCCCA
CAGGACCCAGGTTCCTGGGTGCTTAACGTAACACATAAGGCCCTTAAGGATCTAATCAAACTAAATCATCCCCAACTCC
TCCCATCAACCCCACATAGATATCCCTGTGCCTCAGCTAAATGCTGCCTTTACACCTTGCCTTTACATCTCTCTGCCTG
GAAAACAGCTCATCCCTCTTGATCCAGTTTAAATACACCTTTGTCTGGAAAGCCTTTCCCATTAGTATTTTATACACAA
CCCTATAATAAATATTTCCCCTAATATGTTGTATTTTTTAAAAAAATTCTTTCTCTCACTAGATTGTGAGATTTTTAAT
TTTTATTTTTTTAGACAGTCTCACTCTGTCACCTAGGCTGAAATACAGTGGCGCAATGTTGGCTCACTGCAATCTCTGC
CTCCTGAGTTCAAGTGATTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGATTACAGGCATGCATCACCACGTCCAGCTAA
TTTTTGTAATTTTTTAGTAGAGATGGGGTTTCGCTATGTTGGCCAGGCTGGTCTCGAATCCTGACCTCAGGTGATCCGC
CCACCTTGGCCTACCAAAGTGCTAGGATTACAGGCGTGAGCSACCACGCCTGGCCTAGATAGTGCAATTTTTAAACATC
AATGTATTCCTTTTTGCCTGCTAGTAAGGAATTAAGTCCGGATATTAACATTTGACTATTCTTTCCCCTCTAACACCAA
CTCTTCTCAAAATGTGGTCCTTGAGCTGACATTAACGTCAACTAGGATCTTGTTAGATTATAATCTAGCCCCAGACCAA
GGCTCCAGGAAAAGACTCTCTAGGGGTGGACCCTAGAACCTGTGTTTTAACAAGGACTCCAGGTGATAAGTATGCTCCA
TAAAGTTTGAGAAACACTGTTCAAGACATCATGGAGGTGTTTTTCTATTTCTGTTTTTTTTAAGAAGCAAGTTAATAAT
CTCAACCACCTTTCTAATGTATTTCATTTAATCAAAGGGATACTTGTTGCTACAGGAGTTACAACAGATGACCTAGTGA
GGGCCACAGGCAGTCTGAGGAACAGTAGGATCCCATGTTTGGCCAATGTCTATCAAGCAAGAAAGGAATAGTGAAGCCA
GCTATTAGCTCCCTTCAGCAGAGGAAACCTGGGATTAGGAGTCGCCATCAGGCATCATGGCATCACAAGCAGGCATGGG
TTRAAGATTTAAATGTTGCAAAAAGAGAGAAGAACCAGAAGGAAATTACGTCCACATTATCCCTGCAAGACCATTAATG
TAATGAACAGAAATCAAACACCTTTTCAGTCTTCAAGTGCCGCATTCAGGTTCACTCTGCTAATCACACAGCTGAGTGG
CCCTCTGCTTTCATAACTGGGTGAAACCACACATCCCACCCCAAGATGGCTTGGGATCTACCATCACAAGGGGCCACCA
AAGGGCCAAATAACACAACCCCGAAATTCAGTGGTGGTAACTCTCCATGGGGTTAACTTTGATTACTGGGAAACTAGAA
ATGGGAAGGAGCCAGTAAATTAATTTCTTCTCTCCCAAGACTATTCTGAGGCATAGCCTCCCCCTTGAAGCCCATCAGG
ATGATCCTGCAGTTCCATGTCAGCAAGAGCGCCCTACCAAGTGACCTGCAGTGTCTCTTGGCTGCTCCTTGTGAGTCAG
TAGCCAGCAGAGAAATGTTTTCCCTACTTTCCTTTATTTCTTTGTTCTTACTTGCTTCATTTTGCCTTGACCTTTTTTT
CCTCACCCCTACTACCCAAAGGCATGTACTTCCCAAATAAAGTCTGTCACTCTGATCCCTCCCTCAGACTGTTTCCAGG
GATGCTGAGCACCCTGTACATTCAGAAAAGCAGATGTCAAATTTCTGTATATATATTGGAGTGCACTAAGTATTTAAAA
TCAACCTTTGGCTATTAGAGGTAGGGACTGTGCCTTATGCATCATTGTTTTTCCAGGGCTTAGTTCAGTGTCTGCCATA
TAGCAAGTATTCATTTAACAGGAAAAGAGAAAGACAAGTGGGTAAGTAATTGCCTGAATGAATGAGGTTGATGGTGAAG
AATGGGTGGGAAGGGCATGAATTGGCCTAGAATAGATTAGACATTAAGTAAGCAGGAGTCGAGACAGTTAAGGGGCCAA
AGGCAGCTGAAAAGAATATGGAACAGGAATACAAGTTGAAGGAATCAGGCATTCTCCCTAGAAACAAAGGGTACGGGAA
GGGTAAGAGACAGACACTTCACTGTCTGGGAATTTTCATCCATACTCGTTATTAAAGACACACTTGGTTGCCTACTTAA
TTATTACCAACCCTCCACCCCCACTTTATTCCTGGCATACATAAGTGGGATTTTGTTCAGGTCGTGTGAAGTCAAGTCT
TCCAGGGAGATCCAGCCTCTCCTCAGTTCTGTAGGCTAATTCTGAGCCTTTTATGGTAATTCCTCTACCCTTGCCAGTG
ATTAGGTTAGGACAGGCTTGCCGTGCTGCAATAGTAGACAGTGAGACACAGGTTGACTTCTGGGAAAATATCCCCAACT
CTTACAAAGAAAAGAGAGAACAGAACATTTTTTCTTCGGGGCTTTGGAAATTATTTTCAAAGATGTCATGGTTAGGCTA
TTATCTTGAGGCCACGAAAGGAACTATCTGAATACACAGACAACATACTGAAAATGGCAAAGCAGAAGTTAGATAGCAC
ATGAGTCTTTGAAGATGTGTTTGAGCTGCTGAACTAATCAGCCCTACTTTGAAACTTATTAAGATAATAACTAGTTATT
ATTTAAGCCATTTTAGTTGAACCTGCTATTATTTGCCCCTGAAACAATCCTAACTAATATACTGTTAGTCCATTTGTAT
CGTTATAAAGGAATACCTGATGCTGGGTAATTTATAAAGAAAGGAGGTTTATTTGGCTCAGAGTTCTTCAGGCTGTACA
GGAAGCATGCACGGCTCTACAGCTGCCTGGCTTCTGGTGAGGCCTCAGGAAGCTTTAACTCATGGCAGAAACAAGGGGA
GCTGGCGTATCACATAGTGGGAGGAGGTGGCAAGTAGGCAGGGAGGAGGTGCCATGCTGTTAAACAACCAGCTCCTTCA
TGAATAGAGTGAAAACTTATACATTACTGCAAGGACAGCACCAAGTGGATCATGAAGGATCGTGACCCAAACACTTCCC
AATAGGCCCCACCTTGAATATTGGGGATCAATTTCAACATGAGACTTGGAGAATACAAATATCCAAACTATATCATAC
ACCCACTCTTTGTTCCAACAATGTGCTGGTGAGTCTGGGCTGGGARTGGGGGAGAAAGGTACCTGGCACAGTGGAAATG
TTGGAAATTTGACCCCAAATTAGCTGGGTGACCTTAGGCATGTTAATTCATCTCTACTTTCTTTCATTTTAAATAGGGG
AATTATAATATTGGAATCTTCTCTACATTCTTCACAGTATTAGAGCAAATGAATTTATAAATGTAAACTCAGTGTAAAC
TTTAGATAAAATTTTTCAAACACTAAGCTTGTGACCCAGAGTAGATAATAAAGTCAAAAGATGGTTGCCATGAGCACTA
ACCGTGAATTAAAATAGAATAGAGAATATCACTGTGTGCTGCACATAAGTTTCATTTTCTGAAATTGCTTCATTTACAT
GCATGCATGGGTGCACTTGTGTGCTTGCACACACATGCAAATGTTGCCAAGTAAACTATTTTTAAAAGCATACGAAGCA

Fig. 6.352

TGGATTTAGAACAAAGTCAACACCAGAGACAACTAGAGGAACCTAAGTCTCTCACCAACCCCCACCCCTGCCAATTTAC
CTGTCATCCATGATTCAAAAATGGTTTCTAAAGGGAAATAAAAATTGATTCAAAAGGGAGACCTAATGAGTAACATAAT
AGGGAGCCATTGATTGTTTTAGAGTGGTATGACGGAGCAGTGGGTAAGTAGATCACTCAACACTGGTATTTCAGACTGC
CAAGAGAGGAGAAAACAGACACAAAGTGATTTCTGGGCTTTTGACAACTTTTTTTTTCTCAAAGTAGATTGACAATATT
ATGTGTCATCTTATATATATTAATAGACAAAGGCAATATCTACACTTGGGAATACTTCATGGAAGGCTTGGCTGGAAAC
TAAAAACTGGACTATAAACTTCTTGGGGGTTAGATACGTATCTTAAGACTTCCTTGTGTCTTGAATTGTGCCTAGCCTA
GTGCTGCATAGATATGTAAGCCACTCATTCTTGTGCAATTACCTATTGTAGAATTTTCAGACTAATATATTTCCTTTTC
CTTGTTTTGATCCTCTGCTGAATCATGAGAATAGTTCTCAGGTGAACAGCAGTGATGTACAGTGTCTCACTGGAAAAGC
AGGAAAATAATCAGATGTACCCCAGAACCTTAGGATATGGAGGCTCTTCTACTGGCCACTCCATGGGAAACTCGCTTG
CTTTGGGGGACAGTTTGCTTTGCTCTATTTTGTGGCACAGGGTTTTGCCTTATTTTTCTACTCCCTTATTCCCAGCAA
ACATCCTAAAAAGATGTGGGTAAAAGAAAAAGAGAATAAATTTTGCAATTCTACTCACTGGCTAGAAACAGACAGAGAC
ACATGAGTAGAGGCGGAGTTTACCATCACCCTTAATCATCCTGGGGCCCATGTGTGTATAAAGGCAAGAAAAGAGCCA
TTACCAGGAGGCACTCACCTTCACAGTTTCCACCGCATAATTCCACCCCTCTGTATCAAACTACCCAAATTGCTACACC
AATCACAACTGCCCTCTTGTTCAAAGAAAATAATATCATGGATTTCTTTCCTGGCAGTTCTGCTATTGATTGTTTTTGT
TCTTTTAATAAGCAAGGTGAGAAGGTTAGAAAAAAATTATTCAGATAATTCACCTGGGAGTAGGGTAGGAACTTGAGGC
ATGCAGAGAGAATGGCAAATTCAAAATCAACTAAGCCATAACTGCCTATCCTACTGACCACTGTGCCAGGTACCTCAAA
AGAGTAGGACTTGATTCTTCCTTTTGAGGAGGTTTCAGTTTGGTTGGAAAGGAATGGGGGAGGGGCCAAGTACAGTGGC
TCACACCTGTAATAGCAGCACTTTGGGAGGCCGAGGTGGGTGAATTGCTTGAGCCCAGGCATTTGAAACCAGCCTGGGC
AACATGGCAAGACCCCACATCTACAAAAAATACAAAAATTAGCTAAGCATGATGGTGTGCACCTGTAGTCCCAGCTACT
CGGGAGGATGAGGTGGGAGAATCACTTGAGCCCAGGAGGTTGAGGCTACAGTGAGCTGTGAACATGCTTCTGTGCTCCA
GTCTGGACTACAGAGCAAGACTCTGCCTCAGATAATAAAAAAATAAAAAAGGAAAAAAAAAAAAGAAATGGGGAATGGA
AGAGGAAGGAATCCAGGGGAAGAATGATCACTAAGACTGCATCACACCTTTTGCTATCTCATTTCAACTCTACATCAAC
CCAATATTCCCTTCATTTAACAGAGAGGTCAAAAGAGGCTGGAAGGATAAGGTTGTCCAGTAAAAATGTCAAGGCTGAT
ATGGGAACATAGCCAGTTTGTCTCTAAAGTGCCCTGTGTCCCTTGGGGAAGAGAATATTTAACTTGATTGTTGCTTCAG
TTTTTTATTCTATGTCAGCTATCAGTTTGCAAGGCATTATTTAGGGGATTTCCTTTACTTTCTTTTTTTTTAAATCTCA
AATTTCCCTCTCATTTAGTAACTGTAATTTCAGTGCCTAACATGTAGGACAAAATACTTTCCATATTTTTTTTTCAAAA
TTTTTGCACTGACTGTAGTCCCCTCACTGGAACAGCTTTATTTCCCTAAATAATATACAATGAACTTGTTCATATCGAA
GACGTATGCCAATATTAAATACAAACAGCTCAGCTGGGCGTGGTGGCTCATGCCTGTAATCCCAGCACTTTGGGAGACT
GAGGCAGGTGGATCACCTGAGGTCAGGAGTTCAAGACCAGCCTGGCTAACATGGAGAAACCCTGTCTCTAATAAAAATA
CAAAAATTACCCAGGTGTGGTGGCACATGCCTGTAATCCCAGCTACTCAGGAGGCTGAGGCAGGAGAATCACTTGAACC
CAGGAGGTGGAGGCTGCAGTGATCCGAGATTGTGCCACTGCACTCCAGCCTGGGTGACAGAGCAAGACTCTATCTCAAA
AAAAAAAAAAAAAAAAAAAAAGGTGGCTGACCAGATGGCCAAAAGGAACAGCTCCAGTCTGCAGCTCCCAGCAAGATCA
ATGCAAAAGGTGGGTGATTTTTGCATTTCCAACTGAGGTACCCAGCTTATCTCATTGGGACTGGTTAGACAGTGGGTGC
AGCGCATGGAGGGCGAGCCGAAGGAGGGTGGGCCATTGCCTCACCCAGGAAGTGCAAGGGGTCAAGGAATTCCCTCCCC
TAGCCAAGGGAAGCCATGTGGGACTGTGCCTTGAAGAACAGTRCACTTCGGCCCAGACTACACTTTTCCCACAGTCTTC
GCAACCCACAGACCAGGAAGTTCCCTTGGGTGACTATGCCACCAGGGCCCTGGGTATCAAGCACAAAACTGGGCAGCTG
TTTGGGCAGACACCAAGCTAGCTGCAAGAGTATTTTTCATACCCCAGTGGCACCTGGAATGCCAGCGAGACAGAACAGT
TCATTCCCCTGGAAAGGGGGCTGAAGCCAGGGATCCAAGTGGTCTAGCTCAGCGGACCCCAACCCCACAGAGCCCAGCA
AGCTAAGATTCACTGGCTTGAAATTCTCACTGCCACCACAGCAGTCTGAAGTCAACCTGGGGCACTCGGGCTTGGTGGG
GGGAGGGGTGTCTGCCATTACTGAAGCTTGAGTAGACTGTTTTCCCCTCACAGTGTAAACAAAGCCAAGGGGAAGTTCC
AACTTGGTGGATCCCTCCGCAGCTCAGCAAAGCCATTGAAGCCAGACTGCCTCTCTAGATTGCTCCTCTCTGAGCAGGA
CATCTCTGAAAAAAAAGGCAGCAGCCCCAGTCAGGGACTTATAGATAAAAACCCCCATCTCCCTGGACAGAGCACCCA
GGGGAAGCAGCGGTGGGCACAGCTTCAGCAGACTTAAACATCCCTGCCTGCTGGGTCTGAAGAGAGCAGCAGATCTCCC
AGGACAGCGTTCAAGCTCTGTTAAGGGTCAGACTGCCTCCTCAAGTGGGTCCCTAACCCCCATTGTAGCCTGACTGGGA
GACACCACCCAGCAAGGGTTGACAGACACCTCATAGAGGAGACCTCTCGCTGGCATCTGGCGGGTGACCCTCAGGGACA
AAGCTTCCAGAGGAAGGAGCAGGCAGCAATTTTTGCTGTTCTGCAGCCTCCGCTGGTGATATAGGTAAACAGGGTCTGG
AGTGGGCCTCCAGCAAACTCCAGCAGACCTGCAGAAGAGGGGCCTGACTGTTAGAAGCAAAACTAACAAACAGAAAGGA
ACAGCAATGACATCAACCAAAAGGATGTCCACACAAAAACTCCATTCGAAGCTTACCAACATCAAAGACCCAAGGTAGA
TAAATCCATGAAGATGAGAAAAAAATCAATGCACAAAGGCTGAAAATTCCAAAAACCAGAATGCCTCTTCTCCTCCAAA
GGAACAGAACTCCTCAACAGCAAGGGAACAAAACTGGATGGAGAATGAGTTTGACGAATTGATAGAAGTAGGCTTTAGA
AGGTGGGTAATAACAAACTCCTCTGAGCTAAAGGAGCATGTTCTAACCCAATGCAAGGAAGCCAAGAACGTTGAAAAAA
GGTTAGATGAATTGCTAACTGGAATAACCAGTTTAAAGAAGAACATAAATGACCTGATGGAGCTGAAAAACACAGCATG
GGAACTTTGTGAAGCATATGCAAGTATCAATAGCCAAATAGATCAAACCAAAGAAAGGATATCAGAGATTGAAGATCAA
CTTACTGAAATAAAGCATGAAGACAAGATTAGAGAAAAAAGAAGGAAAGGAAACAAAGCCTCCAAGAAATATGAGACTA
TGCGAAAAGAACAAACCTACATTTGACTGGTGTACCTAAAAGTGATGGGGAGAATGGAACCAAAAGTTGGAAAACACTC
TTCAGGATATTATCCAAGAGAACTTCCACAACCTAGCAAGTCAGGCCAACATTCAAATTCAGGAAATTCAGAGAACACC
ACAAAGATACTCCTTGAGAAGAGCAACCCTAAGACACATAATCGTCACATTCACCAATGTTGAAATGAAGAAAAAAATG
TTAAGGGCAACCAGAGAGAAAGGTTAGGTTACCCACAAAGGAAAGCCCATCAGACTAACAGTGGATCTCTCTGCAGAAA
CCCTACAAGACAGAAGAGAGTGGGGGCCAATATTCAACTTTCTTAAAGAAAAGAATTTTCAACCCAGAATTTCATATCC
AGCCAAACTAAGCTTCAAAAGTGAAGAAGAAATAAAATCCTTTACAGACAAGCAAATGCTGAGAGATTTTGTCACCACC

Fig. 6.353

AGGCTTGCCTTACAAGAGCTCCTAAAGGAAGCACTAAACATGGAAAGGAAAAACCAGTACCAGCCACTGCAAAAACATA
CCAAATTGTAAAGACCATCAACACTATGAAGAAACTTCATCAACAGGCAAAATAACCAGCTAGCATCATAATGACAGAA
TCAAATTCACACATAACAATATTAACCTTACATGTAAATGGACTAAATGCCCCAATTAAAAGAAACAGACTGGCAAATT
AGATAGAGTCAAGAAGCAACGGTGTGCTGTATTCAGGAGACCGATCTCACGTGCAAAGACACACATAGACTCAAAATAA
AGGATTGGAGGAATATTTACCAAGTAAATGGAAAGCAAAAAAAGCAGGGGTTGCAATCCTAATATCTGATAAAACAGAC
TTTAAACCAACAAAGATCAAAAAAGACAAAGAAGGGCTTTACATAATGGTAAAGGGATTGATGCAACAAAAAGAGCTAA
CTATGCTAACTCTCCTAAATATATATGCACCCAATACAGGACCACCCAGATTCAAAAGGCAAGTTATTAGAGACCCACA
AAGAGACTTCAACTCCCATACAATAATAGTGGGAGACTTTAACGACCCACTGTCAATATTAGACAGATCAATGGGACAG
AAAATTAATAAGGATATTCAGGACTTGAACTCAGTTCTGGACCAAGCAGACCTAATAGACATCTACAGAACTCTCCACC
CCAAATTCATAGAATATACATTCTTCTCAGCACCACATCACACTTATYCTAAAATTGACCAACAGAATTGGAAGTAAAA
TACTCCTCAGCAAATGCAAAAGAATGGAAATCATAACAAACAGTATCTCAAACCACAGTGCATCAAATTAGAACTCAGG
ATTAAGAAACTGACCCAAAACTGCACAACTACATGGAAATTGAACAACCTACTCCTGAATGACTACTGGGTAAATAATA
AAATTAAGGCAGAAAATAAGTTCTTTGAAACCAATGAGAACAAAGGCACAACATACCAGAATCTCTGGTACATACCCAA
AATAGTGTTTAAAGGGAAATTTATAGCACTGAATGGCCACAAGAGAAAGCAGGAAAGATCTAAAATCGACACCCTAACA
TCACAATGAAAAGAACTAGAGAAGCGAGAGCAAACACATTCAAAAGCTAACAGAAGACAAGAAATAACTAAGATCAGAG
CAGAACTGAAGTAAACGGAGACACGAAAAATCCTTCAAAAAAAAAAAAATCAATGAACCCACGAGCTGGTTTTTTGAAAA
GATCAACAAAATAGACCACTAGCCAGACTAATAAAGAAGAAAACAGAGAAGAATCAAATAGACACAATAAAAAATGATA
AAGGGGATATCACCACTGGTCCCACAGAAATATAAACTACCATCAGAGAATACTATAAACACCTCTCTGCAAATAAATT
AGAAAATCTAAAAGAAATGGATAAATTCCTGGACACATACATACACCCTCCCAAATCTAAATCAGGAAGAAGTTGAATC
CCTGAAGAGACCAATAACAAGTTCTGAAATTGAGACAGCAATTAATAGCCTACCAACCAGAAAAAGTCCAGGACCAAAC
AGATTCACAACAGAATTCTACTTGAGGTACAAAGAGCTGGTACCATTCCTTCTGAAACTATTCCAAACAATAGAAAAAG
AGGGACTCCTACCTAACTCAATTTATGAGGCCAGCATCTTCCTGATACCACAACCTGGCAGAGACACACACACACACAC
AAAAGAAAATTTCAGGCCAATATCCCTGGTGAACATTGATGCGAAAATCCTCAATAAAATACTGGCAAACCAAATCCAG
CAGCACATCAAAAACCTTATCCACCATGATCAAGTAGGCTTCATCTCTGGGATGCAAGGCTAGTTCAACATATGCAAAT
CAATAAACATAATCCATCATATAAACAGAACCAATGACAAAAACCGCATGATTATCTCAACAGATGCAGAAAAAGCCTT
CGATAAAATTCAACACCCCTTCACGCTAAAAACTCTCAATAAACTAGGTATTGATGGAAGGTATCTCAAAATAATAAGA
GCTATTTATGACAAACCCACAGCCAATGTCATACTGAATGGGCAAAAGCTGGAAGCTTTCCCTTTGAAAACCAGAACAA
GACAAGGATACCCTCTCTCTCTATTCCTATTCAACACAGTATTGGAAGTTCTGGCCAGGGCAATCAGGCAAGAGAAAGA
AATAAAGGGTATTCAGATAGGAAGAGAGGAAGTCATATTGTCTCTGTTTGCAGATGACATGATTGTATATTTAGAAAAC
TCATCATCTCAGCCCAAAATCTCCTTAAGCTGATAAGCAACTTCAGCAAAGTCTCAGGATACAAAATCAATGTGCAAAA
ATCACAAACATCCCTATACACCAGTAACAGACAAACAGCCAAATCATGTGTGAACTCTCATTCATAATTGCTACGAAGA
GAATAAAATACCTAGGAATACAACTTACAAGGGATGTGAAGGACCTCCTCAAGGAGAACTACAAACCACTGCTCAAGGA
AATAAGAGAGGACACAAATGGAAAAGCATTCCATRCTCATGGATAGGACGAATCAATATCATGAAAATGGCAAAATGGC
CATACTGCCCAAAGTTATTTATAGATTCAATGCTATCCCCATCAAGCTACCGTTGACTTTCTTCACAGAATTAGAAAAA
ACTACTTTAAACTTCATATGGAACCAAAAAAGAGTCTGTATAGCCAAGAAAATCCTAAGCAAAAAAAATTAAAGCTGGA
GGCATCACATTACCTGACTTCAAACTATACTACAAGGCTACAGTAACAAATATAGCATGATACTGGTACCAAAACAGAG
ATATAGACCAATGGAACAGAACAGAGGCCTCAGAAATCACACCACCCATCTACAACCATCTGATCTTTCACAAACCTGA
GAAAAACAAGCAATGGGGAAAGGATTCCCTATTTAATAAATGGTGTTAGGAAAACTGGCTAGTCATATGCAGAAAACTG
AAAATGGACACCTTCCTTATACCTTATGCAAAAATTAACTCAGGATGGATTAAAGACTTAAATGTAAGACCTAAAACCA
TAAAAACTCTAGAAGAAAACCTAGGCAATACCATTCAGGACATAGGCATGGGCAAAGATTTCATGACTAAAACACCAAA
AGCAATGGCAACAAAAGCCAAAATTTACAAATGGGATCTAATTAAACTAAAGAGCTTCTGCACAGCAAAAGAAACTATC
ATCAGAGTGAACAGGCAACCTACAGTGGGAGAAAAGTTTTGCAATCTATTCACCTGACAAAGGGCTACTATCCAGAATC
TACAAAGAAATTAAACAAGTTTGCAAGGTAAAAAACAACCTCATCAAAAAGTGGGTGAAGGATAAAAACAGACACTTCT
CAAAGAAGACATTTATGGAGCCAACAAACATATGAAAAAAAGCTCTTCATCACTGGTCATTAGAGAAATGCAAATCAAA
ACCACAACGAGATACCATCTCATGCCAGTTAGAATAATGATCATTAAAAAGTCAGGAAACAACAGATGCTGGAGAGGAT
GTGGAGAAACAGGAACACTTTTACACTGTTGGTGGGAGTGTAAATTAGTTAAACCATTGTGCAAGACAGTGTGGCAATT
CCTCAAGGATCTAGAACAAGAAATACCATTTGACCCAGCAATCCCATAACTGGGTATATACCCAAAGGATTATAAATCA
TTCAACTATAAAGACACATGCACACGTATGTTTATTGCAGCACTGTTCACAATAGCAAAGACTTGGAACCAACACAAAT
GCCCACCAAGGATAGACTGGATAAAGAAAATGTGGCACATATACACCATGGAATACTATGCAGCCATAAAAAGGATGAG
TTCATGTCCTTTGCAGGGACATGGATGAAGCTGGAAACCATCATTCTCAGCAAACACAAGAACAGAAAACCAAACACTG
CATATTCTCACTCATATGTGGGAGTTGAACAATGAGAACACATGGACACAGGGAGGGGAACATCACACACTGGGGACTG
TCGAGGGGTGGGGGGCTGTGGAGGGATAGCATTAAGGAGAAATACCTAATATAGATGATGGGTTGATGTGTGTAGCAA
ACCACCATGGCATGTGTATACCTATGTAACAAACCTGCACGTTCTGCACATGTATCTCAGAACTTAAAGTATAATAAAA
ACTCAAACAGCTCTACATTGTTATTTATTTAAAACTTCAATTTACTTGCTAAGAATTATCTTTTTTTTTTCATTCTCTC
TTCACTTCTCTCACCAGCAATGGCATTTGGGTTTTTTTAAGGCCACTTTAAAAGACATTGAAAATAATACCTGTTTGTT
TTCATTCTATTATTCTTATTACATTCATTTGTCTTTGAATGTTCCCAAGTTTTCTGGTATGACACTACGAATCTAAGTT
ATTCCAGACTTCTCTATTCTTTCATGTATTTAGAATACATTTTTCAAAATTCCTAGGCTGAGGTATTAATAACTTGCCC
AAATTACCTTTCAAAATGTATTTACCATCCCTGTATTACTCAGTACAAAAATTTGATTTTTTGGAGACATATTTGTACA
TATTTATGGGATACATGTAGTATTTTGTTACATGCACAGAACATGTAATGATCAAGTCAGGCTATTTGGGCTATTCATC
ACCTCCATTATTGATTATACCTATATGTTGAGAACATCTTAAGTCCTCTTTTATAGTAAGTTTGAAACATATAATACTA

Fig. 6 354

TACTATAGTCACCCTACTCTGTTATTGCATATTAGAATTTTTTCCTTCTGTGTGTTTGTACCCATTAACCAACCTCTAC
TTCATTCACCCCCCACCACCCCACACACCCTTCCAATCCTCTGGTGTCTATCATTCTATTCTCTACTTCCATAAGATCCA
CTTTTTTAGCTCTTACATATGAGTGAGAACATGTGATATTCTTCTTTCTGTGACTGGCTTATGTCACTTAAGATAATGA
CCCTTCAGTTCTATCCAAGTTGCTGTAAATGCCATCATGTTAGTCTTGTTTATGGCTGAATAGTATTCCATTGTGTATA
TATATATATTCTTTAACCATTCATCCATGATGGATACTTACGTTGATTCCTTATCTTTGCAATTGTGAATGGTGCTGCA
ATAAACATGGGCTGCAGGTATTCCTTTGATATATTAATTTCCTTTCCTTTGGATAAATACTAGTTAGATTACTGGACTG
TATGGTAGCTGTTTTTAGTTTTTTGAGAAATCTCCATACTGTTTTCCAAAATGGCTGTACTAGTTTACATTCCCACCAA
CTCCCACCAACAAGAATTCCCTTTTTTCTGCATCCTCACCAGCATCTATATTTCGTCTTCATCTTCTCCTTCTCCTTCT
TTGACAGGGTCTTGCTCTGTTGCCTGTTTCCCAGGCTGAAGAACAGTGGTGATTCACAGGTGCAATCAGGATGCACTGC
AGCCTTGAACTCCTAGCCTTAAGCAATACTCCTGCCTCAGCCTCATGCGTAGCTGAGACTACAGGCATCAGACTTTTGT
CTTTTTAGTAATAGTCATTTTAACTGGAGTATGATGCTATCTCATTGTGATTTTAATTTGCAGTTTCCCGATGATTACT
GATGTTGAGCATTTTTTAATATGCCCATTTGTCTTTTTTTGAGAAATATCTATTCATGTCCTTTGCCCATTTTTCTTCT
TAGGCAGAGTCTCATTCTGTTGCTCAAACTGGAGTGCAGTGGTGAAATCGTGGCTCACAGCAACTTCTGCCTCCTAGGC
TCAAGCAATTCTCCTGCCTCCCCTCCCCAGTGGCTGGGATTACAGGCGCCCACCACCATGCCCAGCTAATTTTTGTATT
TTAGTAGAGACGGGGTTTCACCATGTTGGCCAGGCTGGTCTCAAACTTCTGGTTTCAAGTGATCCACCTGCCTCAGCCT
CCCACAGTGCTGGGATTACAGGTGTAAGCCACTGCACCTGGCCCTTTACCCACTTTTTAGTAGGATGATTTGTGGTCTT
TTACTGTTGAGTTGTTTGAGTTCCTTGTATATTCTGGATACTAGTCCCTTGTTGGATAAATATCTTGTAAATATTTTCT
CCCATTCAACAAGCTGTATCTTCAGTCTGTTGGTTTCTTGTGTAGAAGAATTTTTAGTTTAATATAGTCCCATTTGTCT
ATTTTTCTTTTTGGTGCCTGTGATCTAGAGATCTTAGCTATAAAATCTTTGGTCAGACTGATGTCCTGAATTGTTTTCC
CTATGTTTTCTTGTAGTAGTTCATAATTTTGGGTCTTATGTTTAAGTCCTTAACTGATTTGAGTTGATTTTTGTACAGG
GTGAGAGATGGGTCCAGTTTCATTCTTCTGCATATGGATATCCAGTTTTTTCTATTCCATTTAGTGAAGAAAGTGTCCT
TTCCTCAGTGTATATACTTGGCACCTTTATAGAAAATCAGTTGGTGGTAAATGTGGTATATGCTGGCATCAGTGTTAGT
GTGTCCAGGCGGGCTGATCTGGGGGCTTCCAGTCAGCTTGCTGAGGTGCTGGCAATGGCAGCTGTGGGCCAGGTGGATG
GGCAGGTCCATAGGCCCTGGGCATCAGGCATGGTGTGGGTGATGGCAGTTGCAGTGGCAGGACAATCCTCTGGTACCCA
AGTAGTCCCAACTGATTTTCAAGGTGGCTGCAGGCCATTTCCCAGGCCCACAGGTGGTTCATGTCTGTGGGTGGGGGGT
GTATGCTGGCTGTGATGGTAGTGGCAGGTTGGGTGAACCCATCTCCAGGCCTTCAGGATGAGTGCTCAGGCGCCAACAG
GAATAGATGGGGCTGAGCAATCCCCAGGCCCCTGCATGGGCACTAGGGAGAAGGGAGACAGAGGTGAGCCTCAGGCCCC
CCGATGGTATATATAGGCACTAGCTATGGTAGGCAGGGGCATGGTGATTTCCAGGCCCTCAGTGGAATGCTTGGATGGG
AGGACCAGCAGCTACACCCTAGCCATGTTGCTGGGGTTGCTTTCATTGGCAGAAGCCTTAGGAGGGCCACTGGGAGCAC
ACACTTTGGCCCCAGGTGGTAGTTGCTGGTGGGGTAGCCTGTTCTCAGGGTGCTTCTAAATGTACGGTACCCTGCTGAT
GGGGATGGTGGGTAGCTTCCAGTGGCCCCCACATTGGATATGGAGGCAGCAGCCAGCAGCAGCAGGGTCTGCGTTAGGG
GGAGGTCAATGGGGCTCAAGGAATCTGGAGTTGCAAGGTCTGTGGGGTCCCAGGGTAGGATGCAGTCTGCTGGGCTTTC
AAAATGGTACCTTGCTGGAGTGCCTTAAGAGTGGGGTAAGAGGGAGGGTGGGTGGGGTGACCCAGTGTGAGCTCCCCAT
ATGAAGCAATGCCATCATGGGGTCTCCAGCCAGTGCCCTATGTCCTAGCAATTCATTCTTTGCGCTCCTGGCATTCTCA
AATGTTTTGTAGATGCCTTCTTGTAGCAGCCAGTCTCGTCCCTTTTCTTGAAGTCAATGAGCATCAAATGTGTTCAGGA
TTCATGAAATAATTCTGACAATAATTAGTATTTTTTATAGGAATTGGAACATGGTTTATTGCAGTATACCGCAGTGTTT
GTCAGCTCTAGAACTTACGAAGAAGAGGAAGAGGAGAACAAGTTTGACTCCTGTGAACGTTTTTCCTTTTTTTCTCAGGG
CTTGTGTGGGTCAAAGGACTCTCCAGTGGCTAGGATTGCAGGAGTCCATGGTAGGAAGGTGGGCCACTGGGGGCTACTC
ACCTACTCTTTCCTCACATTAGGGAGCCCCCTCCAGACTCCCTGCTAATCCCAGCTGAGCAGGCTACTTCACTTTCCTC
TTGTTTTTCATGCTAGGTGTCACTTCCGTGTTGAATTCCAGCCTTCTCTCTTAGGTGATCTATTTTTATTTTACAAGTT
AGAAATATAAGTGCAGAGAAGTTAAAACAGCAAATCTGTGGCTTCCAAGAGTGGCAAAGCAGTTTCTAGCCTATGTTGG
CTGAGTTTTGACCAAGCCTCTGATATGCATACACATATATACATGTTCATGTACGTGTACTTAAAACATTTTTATTCCC
ATGTTTAAGGCTAGTTGAATAGGGGTGAACACAGAAAATCCTAGCAATTCATTCTTTGCACTCCTGGCATTCTCAAATG
TTTTGTAGATGCCTTCTTGTAGCAGCCAGTCTCGTCCCTTTTCTTGAAGTCAATGAGCATCAAATGTGTTCAGGATTCA
TGAAATAATTCTGACAATAATTAGTATTTTTTATAGGAATTGGAACATGGTTTATTGCAGTATACCCCAGTGTTTGTCA
GCTCTAGAACTTACGAAGAAGAGGAAGAGGAGAACAAGTTTGACTCCTGTGAACATTTTCCTTTTTTCTATAATTTACG
CATATGCTAACAAGCAGCTAGTTTCAAAACACAAACTTACCTTGACAGGAACTAGGTCTCACTGTTGAGAATGTAGTCT
CCTCTCTCCCCACATAGCCCTAGGGTTATTCAGGATGAAGGAGAAGAAAAAACATACCCAAGAGCATTTTATAATTCCA
TCCTTCCTTCTTGTTATGCTAAGGTTACTAGTACCATGACCTATGTGAACTCGTTTTCTTGAATAAGAAGAATAAAAGC
GTTCCGTCCATCAAGGAAGACCTCAAGAGAAATTCCAGGTTCAGGTCTCATGGTACAAGAGCCAAGTGTTTCTTCCTGA
ATCATTCCCAGGCCTGCTTTTGATCTGAGCAGTGGCTTTCAAAAAATATGCTGATGAGATTGCTCTCTCACTTAAGAAC
TTAAGAAAGAGTTGAAGTTCTTCAATGTATATCCCCAGCCTGAAACTTGTCTTGAGGAAGATTTGTAGTAGTAATGAAG
GGTGACAGTAACCTAAGGGTGAAGAATGTAGAGAGATTTTTCCCAAGAGCAATCCAAGATACTGCTTGAAACATCCGGG
GTCCACTGACATGCCCCTTGGACTCCAGGAGAAATCTGGAAATGTCTGGACCTGCAATGAGACACACCCAGCTTCAAAT
GTGTCACTCTGGGCATATTCTTTAATCTGAGCTCCAATTTTCTTTCTTGTAAGAGTCATTACACATGGCTGTTTTATTT
ACTAATTCGTTTTTTAAATTAAAGAAATAAATTTGTAGGAGTAATATAGTTACATTGTTTACAAGTCAAATTCTTACAT
GGCTCATTTCCATCCATTTCATGGATGTGTTACCTTCTGGTATTTATTAGAATTTGCTTTAGACTTTCTGTTGCTCACC
TCACAGTTCTTGTGTCATCTTAGTTTCTTTTCTGTTTTTTGGTCTTTTATGCGAGAGGTTTTCCTCACATTGTCTGATA
ATCCTTGGCAGTCAGTTCGTATTGAAGAGTTAGACATTAGAAAGCCAAGTGAAAATCCTGTGTGTGTACAAGGTTTGTT
GACTGGAAAGCTTCATGGGGATATTCTTGCTTGGACATTTCACTGAAGGACATCCAAAAACCTGTTGCCGTTTTTAGAT

Fig. 6.355

TTTTTTTCTTGGATTGTTGGTTTTCCTGGTGATCTTACTCCAATCTCTTTGGTGCCATAATTCTACCAGCTGAGTATGA
GAAGGAGCTGGGGTTTCTCAATGCAGAATATGTACTTGGTTCTAATATGGTAGTCTGGTTCTAATATTGTAGCCTTTTT
CTCAGCAATGGTTGCCACATCTGAGTCCTGAATCCCTTTGGAATCAGCCTCTCCAGAGGGTGTATGTTTAGAACCGGCG
TGAGTGAAAGGTAGTCATCCAATGACATGAGGTGGGTGAAAATATTTTAACTGCTTTATTTATAAATTTTCAACTGACC
CTCCTGTTTTTGAAACCCACCAGTGTCCCCACTTCCATAAGTCCCTGGATCCTCAATTTTCCAAGTCTTCCTGGAATTC
TATGGAGTAAATTAGCTTACTGATGCATTTCCCTTACTTGCCTTAGGTTTCTGCTCACTCTGTTCCCAAGTCAATTATG
ACCTACCTGGCTGCTTCCAGTTTCTGAAATGTTGTGTGTCAGCTTCTTTTCCATTGCCTTTGTCCTTGCAAGCTTATGC
CATTTTAAAAAATTCTTTTGCTGTCGTTTTTGTGGAGAAATAGAAAAATATGTACATTCAATCCCCATGTTTAAGTGGA
AGTCCCTCATAAAATTATATTAGAAATTTATTAGAAATATATACACACATATGAATATAGATAGATATACACTCTCTTT
TTTAGCATACATAGTGCCTGTTATTTAGCAGGTACTAAAAAATAATATGTATATGTATATACATGTAGCAGAAGGCTAA
CAGGAACTTAGATACACTCAGGAATATATGATAGCATGGAAGGTTGGAACGGTGGGCCTGTGCACAATCAAGTCATGAG
GACTTAGAAAAAGACGGAACCATGGCTGGGTGCGGAGGCTCATACCTGTAATCCCAGCACTTTGGGAGGCCGAGGCCAG
TGGATTACCTGAGGTCAGGAGTTCAGGACCAGCTTGGCCAACATGGTAAAACTCTGTCTCTTAAAAAAAAAAAAAAAA
AAAAAAAAAATACAAAAATTAGCCAGGCATAGTGGCAGGCGCCTGTAATCCCATCTACTCGGGAGGCTGAGGCGGAGGT
TGCTGTGAGCCAAGATCGCGCCATTGCAGTCCAGCCTGGGCAACAAGAGCAAAACTCAGTCTAAAAAAAAAAAAAAAA
AAAAAGAAAGAAAGAAAAGAGAAAAAGAAAAAGAGAACCTGGCAGGATTCAGTAATTAAGCCAGAGTCAGAAGGAGAAG
TACTTCTCAATACAGCATGGTATCTTCTGTTTTTTAGACACGGCTCTACCCAGCTCAATTGATTCATGACTGTGTGGGT
GTATTTTGTTTTGTTTTTTCTTTTTCAGACTTTGTCAACAGGAAGTAGGTGCCCATGTTGTTGATAGAAAAGTTTGTAA
GTAGGACTGCACAGACTTGGTTTTGGTTCAGCATTTGGCAATAATCAGTCTTTCTGCTTCAGCCTTCAGAGAGCCCACT
TCATCATTCTTTCTGGCATCCCTGTGATCATATGATTACATATCTAATCAGTGTAACAACAACAGCTACTTAAAGAAGG
CATGCCATTAAAGATATTGTTAATATCTCTACATTGCCTTTCAAACATATGTAAGCATTCTAACTTGGAGTGAAATCTT
CTTAGGTGCTTTATATGTTGAAATTCTACCAGTCAGCTGAGGAAGAAATGTATACGGCTTATCCCCAAAATAAGATATT
CCAACAAATAATGTTTATGAGAGCTGTTAATTTATGTTAAAAAAAAAAGCTATTAATAAAATGTTTAAGTAATTAAATT
TGGGAGCTTGATTGGCAGTAGGAATATTAAGAGGATTAGCTAGATAACTAATGTAGAAAATAATATAATTGTATTGAGT
CAACAAAAGCTTATATAGATTTAATTACTATGATGATATTAGATTACTTCATAATTAGAATCTTTGTAGAATTGTTTTG
GTATAATTGCATTCACAATACTCAAAAAGTAAGCTTAAAGAATGATATTTTTAATTATTTAATTCCAGTAAGTCATAAG
TCTTATTTTTTGCATTATATGAGGCTGAATTAAAAGCAGAATGCCATCTGACATTTCAAAATTTCATGGAGAGAAATGT
ATCTGAAATCATATACACCAAAAAGATAAGTAAAATTTGATAGAAAAAAATGAATGTATTTTAGCTGAGTTCTGACATG
CATTTTATTCACAAATCAAACTTCAGAACACAGAAGACAATTTCTTATTTTGAATTTATAGAGACTATTCTAATATTAA
ATTGATTTTTACAAGCTAGCAAATATTTTCAATAGTTGAAGCTTCGGAGTTTCTCATTTATCTAAGCTATGTAAATGCA
TGCAAAGTTTCTTCTAGAAAACAAATTACTGAAAGACATTTTCCTGATTTGTATTTGGCTGTGTTATTCCCCAGAAGGT
GAAATTATTAAACATGCCATTCGAAAGCCAGTAACTCCTTAGTACAGGTTGAACATCCCTAATCTGAAAATCTGAAATC
TGAAATGCTCCAAAATCTGAAACTTTTCAATGCCAACATGATGCCACAAGTAGAAAATTTTACACCTGATCTCATGTG
ATGGGTACCAATCAAAACTTTGCTTCATGAACAAAACTATTTTAAAATATGTATAAAATTATCTTCAGGCTATTTGTTA
GGAAATAAAAAATAAAACTCTAAGTCCCTCCGACTGACCCAGCGGATTCTCTCTTGGCCAAGGGAACCCCAGCAAAACCT
TGGAAGCTGAATTCATGGCTATGATGGGATGGGAGATTTGGCATATGCCTCATTATATCCCCACCCTCGCTAACAGTCG
TTAGGTTTTCTTCCTTAACAGCTAAACAGAAACCAGCCTTTCCAAAAGACTACTAGCTTATCTTCCCAGATACGTAACA
GTCCAGATGAGATTCATTATGTTCACCTTATTTTATGTAAGATGTAGATTTACCAGGCACTAACTAAAGTTTTACAAGT
ATGTAATCATTTGTCTCACTGCTGCCCCACCACCTCCCCTGCCTTTTAAGGAAAATATATAAATACTAAACCTCCTAAG
AACCTCTTTGGAAAAAACAGTCACACATGCTTCTGTGACTCTCTATTTTCCCAGGTATGCCTTCAAGCTGGCTCAACAA
AGCTTGATGCTTTGAAACTTATGCTTCAATTACTCATTTCAGTTGTCAGTGTAAAAGGTGTATATGAAATAGAAAAGAA
TTCTGTGTTTAGACAGTTCTCATCAGTGAGATATCTCATTGTGTATATCCCAAAATATTTCAAAAAAATGAAATCCAAA
ACACTTCCAGTTCCAAGCATTTAGGACAAGGGATATTCAATCTGTATCAGAAACATGCGATGGTGACCACAAAAGGAAT
CTGGCAGCTGAAAATTCTGAGTCACTATCATGTCAAACTATAAAAATTTTATACAACTTAAAAAAAAAACCTGCACTAA
TCATTAATTTATATTATTGTTAAAATTATCATACAGTAAAATTGATTTTTTTTCCTTTTGATGTACAGTTCTGAAACCA
CCTTTGCAAAAATTGCAACACTGAGAAAACTTTGACAGTGAAAGAAATTTGACCTAACCAACTCCACATTGCCTTTAAC
CTCCAAACTGCCCTTCATTCCTGGGCATGGCCTAAGCTAACTTTGGGAGAAATTTAGGTTATAGTTTAAATGATAATAG
CTCTTTCCAAAACTAAACTGCCTTTGTAAAACTAATGAAAGGCCACCAGTTTACGAAGATAGGAGGGCCTGAATTCTGC
TAAGATATAGGCATAGTTAAGTGATTACCAGCCATTATTCCAGAGGTCACAAGATTTTCAACTTCCTCAATTACTCCTG
TAAATAACGTTACTATTGTAGAACCTAAAATTACTATTGTAGAACCTAAAGTTGACCTTTTGAGATGTCTTGTCAGGCT
TTTGCATTTCTGATGACMCCAGTGTCCTGAACCAGTGACTCCTCTGTGGACCCTTACTGGAAGCTGACTCAGGGCACAC
GAGGACCATTTTCCACACCCATATGATTGCATCCCCAACCAATCAGCAGCACCCATTCCTTTGCCCACCAAATTACTCT
TGAAAAACTCTAGCCTCCAAATTTCAGGGAGGCTGATTTGGGTAATAATAAAACTCTGGTCTCCTGTTTAGCTGGCTC
TATTTGTATTAAACTCTTTCTCTACTGCAATTGCCCTATCTTGATAAATCAGCTTTATCTGAGCAGCAGGCAAGAAGAA
CCCATTAGACAGTTACAGTTCTGTAAATTTTAACACAAACATTGTTCATGTAACCACCAGTAGGATCACCATCTGGATC
AGTTTCACCACCTAAAAAGCTTCCTCATAATACCCTACTCCATGACACTAGGAACAGCTACTAGTTCTCCATCCCAATT
GTTTCATCTTTTGAGAAGTTTATATAAATGGAATTGTATAGTATAATCATCAATTTTAAAATAAAATTTCAGATGTATT
CACATTCCATAAGTGTACTCTATGATGCTGATATTTATCTTTAGCCTCAGCTTATGCCAAACTATGCCTTTCCATATAT
GGCCAAAAATGTGTATTCAATATACCTCTAACTGGGAGGATCAATTGAAAGTGTTGTTTTACTAAACTCTATAACACAAA
GGAATTCAAGGATACCATAGGGATCATTCAACTGATTATAACACAAAATGGGGAGAGCCAATTTCCCTGTCCCCAGAGA

Fig. 6.356

CCTCTGGGCAGCTCTAGCTCCCTGAGGGASSCAGCACAACAGTGGTCCCTTTCTCAGGAGATACCTGGGACACCAGGCA
GTTCCTCTTAGACCTTCTGGGAGAGGGGTTCCCAGCAGACGCTGGATAGGAGCAATAGCACTGAGAAGGGGTAGCAGAA
GCAGCAGTGGCCTTGACTTGTGTATGTGCACATATGCAAGGAGCCCTTGCGAGACTCCCTTCTCCCCAGGTAGTAGGGT
CTTGCTTGCCTTGCTAGTGGCAAGAACCACTAAAGTTTAGTTGTTACTGTTAACGTAACCCTATTTCTACTTACAATGT
GGTGAGGCCTTGGAAAACCCAAGTTATATAAACATTTGTCTTAGTTCATTTAGGCTGCTTTAACAAAAATACCATAAAC
TGGGTGGTTTATAAACAACGAACATTTATTTCTCACAGTTCTGGAGGCTGAGAAGTCCGAGATCATGCTGCCAGCAGAT
TCACTGTCTGGTGTGGTCCCATCCCTACACAGTGAAAGCAGCAAGGTCACTTTCTGTGCCTGATTTATAAGGACACTAA
TCCCGATCATGAGGACTCAACCCTCATGACCTAATCACCTATCAAAAAGCCCCATCACCTTAGGGTTTAGGATTTCAAA
ATATGAATTTTGGGTAGACACAAACATTCAGACTGCAGCAACATTCAATAGAGGCAACTCACCTACCAGGAGGCAACTT
TTCATTCTGATGCCCAGGTATGACAGACCTCAAATCTGTTACCGTCCCATGAACCAGGAATTATACAAAGGGTAGAGGG
GCATAGCTCTGGGTGAAGAGCTGCACTCTGTTCACTCTGGGCTCTGTGTGGTGGTGTCCCAGGTAGTGTCAGTCCAGCT
GTTAAGTCCAGTGAGGCTCAGAAAGGTGATGTCATTTGTTCAAATCTTCCAGCTAGTTTGTTGGTCAGATCATAACCAG
ACCCTATGAAGTCTAATCATACCCAGTTCTGTAGGCTTTCCTCTTCAATAGGTCCATTCTTATCTCTAACTGAGACCAC
CTGCATCCTCATAGCTTAACTATCAGTATGGAAAACAAACCATCTGTGTCACTATGACTTTACTATTTGTTCAAGAAAA
TTCTTGTCCAGGAAGATAAGACGGTGTACAATAAATAACATCAATGTTTACTTCAGAAAATTTCTGAAAACCAATTTAT
TCAGATGATAGATTGCTCATTTGAAAAAATAAACCCCTTTTCAGGACAACAGATTCCTCTCCAAGTCTAATAACTTGTT
TATCAAAGATCTATTTTTCAGGACTTCAAGACCCTCTTATCACAATGTCCACCAATTCTAAACTATAATATCATGAACT
TTGCCGAATTTCCACCAGATTTCTTCCTTGAAAGGCCTGACTTTAAACCACTTGAGCTCAGACCCTTAATGTTTATAAA
TATCTACCTGTGACCTCTCCCTTTTGAGAATTATAAGGACTTTTTCAAGGTGTTGCACTCTCTTACTGCAGGTTAATAA
ACTTAGCTTTGTTTGATCAATAGTTTATTCTGATGGTCTTCTTTGAAAGTCAGCAATCAACAGTTCTGGGGCCTCAGTA
GGATTCACTCAATAATTTCTGCTCCTGCAGTTTAAGAACCTTAGCCCTAAACAGTGTGTTCTTCTGAAGTTTGCCATTT
GGAAGCCTCCCCCACTGCAGTGTTAAGGTAAGTCTCTCATTGGATTTGAGTCCCGGTGTCCTTTCCATAAAGCTCTTAA
ATTGTTTATTTTTCTTCCTAGAAATAAGAAACTTTTAAGAAATTCCTGGATTATCTGATCAGATTTGAAAATGTTTATT
CTTTGTGGAAATGTTTTATTACTAGTAACATTACTCTTTTTGTCTTTTATCCTATTTGTTGTGAGTCTATGAGAAGAAG
CTCACAGGGAAGAAGACAGCCGTAGACCTGGCAATTTTGTCCTCAAACTGGCTCAAAGATACAATAATATCAGCGGGTC
TCATCAAACTGGCATTCTTATAGAATAAACTTTGCTCTGGGTCACTTACTAATATCTTACAGAAAATTTATAGCAGCAG
TTGTATATTGAGGGTGTGAATAAAAACCACCAGAGAAGCTTTTTGAAAAAATACTATGAATAGATTTCTGCTTCTGGCC
AAAATGAAGAAACAGGGACCAGATTTACTCTCCAGTAAACCAGTGGAAAAAAAAACAGACACAATATTGAAAAATAAAA
AGATTTTTCAAGACATCAGGCAATGAAGAATAGTGATCCAAGAGAAACAAGAAACAAGATGAATCTTATGTTCGCCACA
GCTTACTGTCTGGAGTGAGTATCAAGACTGTGGTACAGAAAGGGAAAACCCAGATGGAACCCTGCCATCTCCCTAAGTG
GAGTCTGGGGAGGGCAAAGTGAGTAGAGTTTGCAAGGAAAGATATGGAAAGGAGACAGCTGTGCAGAGAGAACACTGG
GGATCTGTACAGGGTCTTCAGCTGAGCATGAGTCAGCATATGCATGTGAGGAAACTACCCATGACTGGGGAAAGAATCA
GCTGGAATGATTACGGGGTATAGAATCCAGGGCTCAGAATCATTCCTGTTTCTATAGGAAATGGGCATTGAGTAGCATA
CTTGGAAGAATTTTTGCTTCAGTCATGCAGTAACATAGAACTTAGACTAAATACTACTCTGATACCACATAATGAAACT
CAAAATAAGACCCAAAAGAATCAAACTGTTTATAAGTAACTGAGTTTCAAAATAAAGTTCAAGAATATTTATAGAAATA
CCATCTAACAAAGCACAAAATTAAGATAAAGGGTCAAACTATTTGCAAGTAATTTTAAGTGTGTTCTAGAACAAAGTTC
AAAAGTATTTATAGAAATACAAAAGGATCCAAAAACTGTCCACAAAAATATGACCCATAATGAAGAGAAAAATCAGTCA
TTTGAAACTAACCCAGAAATGACAAAGATGATAGAATCGGCAAAGACATTAGAAGAACTGTAATTGTACTTCGCATGTT
CAAGAAGCCAGAGGAAAGACTGAACATGGTAAGCAGAAACATGGAAGATATAAAAAGACTAAAAATCAAACTTTAGAGA
TGAAAACATTATGTGAGATGAAAAACACACTGAGTAGAATTAAAGGCAAATTGGAAATTTCAGAAGACTAGTGACTTTA
AGAATTGAGAGATAAAAAGTACACAAAATGAGAAACAGAAGTGTGTCAGTGAGTTATGGGACAACTTCAAACTAATGCG
TAAATTGCAGTCCCTGAAGGAAATGAGGGATATGTTGGAAAAAAATATTTGAAAAAATAATGGCCAAAAATCTCCCAAA
GTTTATGAAAACCACAGATTCAAGAAGGTCAACAAATTGCTTAAAAATAGAGAAAGTCTAATATTAGGATACAAGGTCT
TGACCAGGTGTGGTGGTTCATGCCTGTAATCCCAGCACTTTGGAAGGCCGAGTGGGAGGTGAATCACTTGAGGTCAGGA
GTTCAAGACCAGCCTGGCCAACATGGTGAAAGCCTGTCTCTACTAAAAACACAAAAATTAGCCCGGCGTGGTGGTGCAC
ACTATAATCCCAGCTACTCGGGAGGCTGAGACAGGAGAATCACTTGAACACAGGAGGTGCAGGTTGCAGTGAGCCGAGA
TTTGTGCATTGCACTCCAGCCCTGGGTGACAAAGTGAGACTCCGTCTTAAAAAAGACAAAAACAAAAACAAAAACAAAA
AAATGGAAATAAGGTCTCAAATTAATAACTTCAGCTTACACCTTAAAAAAAATTAGAAATATCATT

Fig. 6.357

Position of N	ambiguity code
30102	R
30205	Y
30559	Y
30699	K
34304	R
34516	K
34782	R
35697	K
35810	Y
36817	Y
40290	K
40454	M
49148	S
55023	Y
58397	Y
58622	R
58633	S
74447	R
75896	K
82244	S
88456	W
88499	R
90688	S
99035	R
102977	R
104552	Y
104862	R
105225	Y
111252	Y
111781	Y
112118	M
118914	W
120628	R
123312	R
123426	S
125304	M
128015	Y
128393	R
129360	Y
129361	Y
131865	M
132562	R
135112	K
138281	Y
138806	R
147700	Y
147715	R
148161	Y
148236	Y
148606	K
150961	Y
152214	R
154374	Y
157074	M
157272	R
160863	Y
161195	R
162720	Y
163290	R
165441	K
166462	R
168136	Y
173481	R
173519	R
175259	S
175603	Y
181225	Y
197941	M
198444	Y
198745	R
221134	R
222532	K
224195	R
224801	Y
226923	R
227254	Y
227460	S
228326	K
228647	Y
228831	R
230175	K
230288	Y
232201	M
232338	M
234332	R
235271	R
263539	K
270257	R
270458	Y
270498	R
271159	Y
274150	Y
274353	M
275602	Y
277422	M
278146	R
286615	Y
289348	S
289425	R
289868	R
289979	Y
290063	R
290164	Y
290801	R
292925	R
293201	R
293611	Y
295755	R
296143	R
296739	Y
297107	W
297460	Y
297895	R
298027	Y
298152	N
298153	N
298585	S
298605	K
298799	R
299792	M
300815	Y
305880	R
306978	M
309436	Y
309763	Y
313529	K
313971	R
317210	S
318829	Y
410826	R

Fig. 6.358

<210> 2
<211> 809
<212> PRT
<213> Homo Sapien

<400> 2
Met Glu Ala Glu Gly Ser Ser Ala Pro Ala Arg Ala Gly Ser Gly Glu
1 5 10 15
Gly Ser Asp Ser Ala Gly Gly Ala Thr Leu Lys Ala Pro Lys His Leu
20 25 30
Trp Arg His Glu Gln His His Gln Tyr Pro Leu Arg Gln Pro Gln Phe
35 40 45
Arg Leu Leu His Pro His His His Leu Pro Pro Pro Pro Pro Pro Ser
50 55 60
Pro Gln Pro Gln Pro Gln Cys Pro Leu Gln Pro Pro Pro Pro Pro Pro
65 70 75 80
Leu Pro Pro Pro Pro Pro Pro Pro Gly Ala Ala Arg Gly Arg Tyr Ala
85 90 95
Ser Ser Gly Ala Thr Gly Arg Val Arg His Arg Gly Tyr Ser Asp Thr
100 105 110
Glu Arg Tyr Leu Tyr Cys Arg Ala Met Asp Arg Thr Ser Tyr Ala Val
115 120 125
Glu Thr Gly His Arg Pro Gly Leu Lys Lys Ser Arg Met Ser Trp Pro
130 135 140
Ser Ser Phe Gln Gly Leu Arg Arg Phe Asp Val Asp Asn Gly Thr Ser
145 150 155 160
Ala Gly Arg Ser Pro Leu Asp Pro Met Thr Ser Pro Gly Ser Gly Leu
165 170 175
Ile Leu Gln Ala Asn Phe Val His Ser Gln Arg Arg Glu Ser Phe Leu
180 185 190
Tyr Arg Ser Asp Ser Asp Tyr Asp Leu Ser Pro Lys Ser Met Ser Arg
195 200 205
Asn Ser Ser Ile Ala Ser Asp Ile His Gly Asp Asp Leu Ile Val Thr
210 215 220
Pro Phe Ala Gln Val Leu Ala Ser Leu Arg Thr Val Arg Asn Asn Phe
225 230 235 240
Ala Ala Leu Thr Asn Leu Gln Asp Arg Ala Pro Ser Lys Arg Ser Pro
245 250 255
Met Cys Asn Gln Pro Ser Ile Asn Lys Ala Thr Ile Thr Glu Glu Ala
260 265 270
Tyr Gln Lys Leu Ala Ser Glu Thr Leu Glu Glu Leu Asp Trp Cys Leu
275 280 285
Asp Gln Leu Glu Thr Leu Gln Thr Arg His Ser Val Ser Glu Met Ala
290 295 300
Ser Asn Lys Phe Lys Arg Met Leu Asn Arg Glu Leu Thr His Leu Ser
305 310 315 320
Glu Met Ser Arg Ser Gly Asn Gln Val Ser Glu Phe Ile Ser Asn Thr
325 330 335
Phe Leu Asp Lys Gln His Glu Val Glu Ile Pro Ser Pro Thr Gln Lys
340 345 350
Glu Lys Glu Lys Lys Lys Arg Pro Met Ser Gln Ile Ser Gly Val Lys
355 360 365
Lys Leu Met His Ser Ser Ser Leu Thr Asn Ser Ser Ile Pro Arg Phe
370 375 380
Gly Val Lys Thr Glu Gln Glu Asp Val Leu Ala Lys Glu Leu Glu Asp
385 390 395 400
Val Asn Lys Trp Gly Leu His Val Phe Arg Ile Ala Glu Leu Ser Gly
405 410 415
Asn Arg Pro Leu Thr Val Ile Met His Thr Ile Phe Gln Glu Arg Asp
420 425 430
Leu Leu Lys Thr Phe Lys Ile Pro Val Asp Thr Leu Ile Thr Tyr Leu
435 440 445
Met Thr Leu Glu Asp His Tyr His Ala Asp Val Ala Tyr His Asn Asn
450 455 460

Fig. 7.1

Ile His Ala Ala Asp Val Val Gln Ser Thr His Val Leu Leu Ser Thr
465 470 475 480
Pro Ala Leu Glu Ala Val Phe Thr Asp Leu Glu Ile Leu Ala Ala Ile
485 490 495
Phe Ala Ser Ala Ile His Asp Val Asp His Pro Gly Val Ser Asn Gln
500 505 510
Phe Leu Ile Asn Thr Asn Ser Glu Leu Ala Leu Met Tyr Asn Asp Ser
515 520 525

Ser Val Leu Glu Asn His His Leu Ala Val Gly Phe Lys Leu Leu Gln
530 535 540
Glu Glu Asn Cys Asp Ile Phe Gln Asn Leu Thr Lys Lys Gln Arg Gln
545 550 555 560
Ser Leu Arg Lys Met Val Ile Asp Ile Val Leu Ala Thr Asp Met Ser
565 570 575
Lys His Met Asn Leu Leu Ala Asp Leu Lys Thr Met Val Glu Thr Lys
580 585 590
Lys Val Thr Ser Ser Gly Val Leu Leu Leu Asp Asn Tyr Ser Asp Arg
595 600 605
Ile Gln Val Leu Gln Asn Met Val His Cys Ala Asp Leu Ser Asn Pro
610 615 620
Thr Lys Pro Leu Gln Leu Tyr Arg Gln Trp Thr Asp Arg Ile Met Glu
625 630 635 640
Glu Phe Phe Arg Gln Gly Asp Arg Glu Arg Glu Arg Gly Met Glu Ile
645 650 655
Ser Pro Met Cys Asp Lys His Asn Ala Ser Val Glu Lys Ser Gln Val
660 665 670
Gly Phe Ile Asp Tyr Ile Val His Pro Leu Trp Glu Thr Trp Ala Asp
675 680 685
Leu Val His Pro Asp Ala Gln Asp Ile Leu Asp Thr Leu Glu Asp Asn
690 695 700
Arg Glu Trp Tyr Gln Ser Thr Ile Pro Gln Ser Pro Ser Pro Ala Pro
705 710 715 720
Asp Asp Pro Glu Glu Gly Arg Gln Gly Gln Thr Glu Lys Phe Gln Phe
725 730 735
Glu Leu Thr Leu Glu Glu Asp Gly Glu Ser Asp Thr Glu Lys Asp Ser
740 745 750
Gly Ser Gln Val Glu Glu Asp Thr Ser Cys Ser Asp Ser Lys Thr Leu
755 760 765
Cys Thr Gln Asp Ser Glu Ser Thr Glu Ile Pro Leu Asp Glu Gln Val
770 775 780
Glu Glu Glu Ala Val Gly Glu Glu Glu Glu Ser Gln Pro Glu Ala Cys
785 790 795 800
Val Ile Asp Asp Arg Ser Pro Asp Thr
805

<210> 3
<211> 150
<212> PRT
<213> Homo Sapien

<400> 3
Met Asp Arg Thr Ser Tyr Ala Val Glu Thr Gly His Arg Pro Gly Leu
1 5 10 15
Lys Lys Ser Arg Met Ser Trp Pro Ser Ser Phe Gln Gly Leu Arg Arg
20 25 30
Phe Asp Val Asp Asn Gly Thr Ser Ala Gly Arg Ser Pro Leu Asp Pro
35 40 45
Met Thr Ser Pro Gly Ser Gly Leu Ile Leu Gln Ala Asn Phe Val His
50 55 60
Ser Gln Arg Arg Glu Ser Phe Leu Tyr Arg Ser Asp Ser Asp Tyr Asp
65 70 75 80
Leu Ser Pro Lys Ser Met Ser Arg Asn Ser Ser Ile Ala Ser Asp Ile
85 90 95

Fig. 7.2

His Gly Asp Asp Leu Ile Val Thr Pro Phe Ala Gln Val Leu Ala Ser
100 105 110

Leu Arg Thr Val Arg Asn Asn Phe Ala Ala Leu Thr Asn Leu Gln Asp
115 120 125
Arg Ala Pro Ser Lys Arg Ser Pro Met Cys Asn Gln Pro Ser Ile Asn
130 135 140
Lys Ala Thr Ile Thr Val
145 150

<210> 4
<211> 745
<212> PRT
<213> Homo Sapien

<400> 4
Met Ala Gln Gln Thr Ser Pro Asp Thr Leu Thr Val Pro Glu Val Asp
1 5 10 15
Asn Pro His Cys Pro Asn Pro Trp Leu Asn Glu Asp Leu Val Lys Ser
20 25 30
Leu Arg Glu Asn Leu Leu Gln His Glu Lys Ser Lys Thr Ala Arg Lys
35 40 45
Ser Val Ser Pro Lys Leu Ser Pro Val Ile Ser Pro Arg Asn Ser Pro
50 55 60
Arg Leu Leu Arg Arg Met Leu Leu Ser Ser Asn Ile Pro Lys Gln Arg
65 70 75 80
Arg Phe Thr Val Ala His Thr Cys Phe Asp Val Asp Asn Gly Thr Ser
85 90 95
Ala Gly Arg Ser Pro Leu Asp Pro Met Thr Ser Pro Gly Ser Gly Leu
100 105 110
Ile Leu Gln Ala Asn Phe Val His Ser Gln Arg Arg Glu Ser Phe Leu
115 120 125
Tyr Arg Ser Asp Ser Asp Tyr Asp Leu Ser Pro Lys Ser Met Ser Arg
130 135 140
Asn Ser Ser Ile Ala Ser Asp Ile His Gly Asp Asp Leu Ile Val Thr
145 150 155 160
Pro Phe Ala Gln Val Leu Ala Ser Leu Arg Thr Val Arg Asn Asn Phe
165 170 175
Ala Ala Leu Thr Asn Leu Gln Asp Arg Ala Pro Ser Lys Arg Ser Pro
180 185 190
Met Cys Asn Gln Pro Ser Ile Asn Lys Ala Thr Ile Thr Glu Glu Ala
195 200 205
Tyr Gln Lys Leu Ala Ser Glu Thr Leu Glu Glu Leu Asp Trp Cys Leu
210 215 220
Asp Gln Leu Glu Thr Leu Gln Thr Arg His Ser Val Ser Glu Met Ala
225 230 235 240
Ser Asn Lys Phe Lys Arg Met Leu Asn Arg Glu Leu Thr His Leu Ser
245 250 255
Glu Met Ser Arg Ser Gly Asn Gln Val Ser Glu Phe Ile Ser Asn Thr
260 265 270
Phe Leu Asp Lys Gln His Glu Val Glu Ile Pro Ser Pro Thr Gln Lys
275 280 285
Glu Lys Glu Lys Lys Lys Arg Pro Met Ser Gln Ile Ser Gly Val Lys
290 295 300
Lys Leu Met His Ser Ser Ser Leu Thr Asn Ser Ser Ile Pro Arg Phe
305 310 315 320
Gly Val Lys Thr Glu Gln Glu Asp Val Leu Ala Lys Glu Leu Glu Asp
325 330 335
Val Asn Lys Trp Gly Leu His Val Phe Arg Ile Ala Glu Leu Ser Gly
340 345 350

Asn Arg Pro Leu Thr Val Ile Met His Thr Ile Phe Gln Glu Arg Asp
355 360 365
Leu Leu Lys Thr Phe Lys Ile Pro Val Asp Thr Leu Ile Thr Tyr Leu
370 375 380

Fig. 7.3

Met Thr Leu Glu Asp His Tyr His Ala Asp Val Ala Tyr His Asn Asn
385 390 395 400
Ile His Ala Ala Asp Val Val Gln Ser Thr His Val Leu Leu Ser Thr
405 410 415
Pro Ala Leu Glu Ala Val Phe Thr Asp Leu Glu Ile Leu Ala Ala Ile
420 425 430
Phe Ala Ser Ala Ile His Asp Val Asp His Pro Gly Val Ser Asn Gln
435 440 445
Phe Leu Ile Asn Thr Asn Ser Glu Leu Ala Leu Met Tyr Asn Asp Ser
450 455 460
Ser Val Leu Glu Asn His His Leu Ala Val Gly Phe Lys Leu Leu Gln
465 470 475 480
Glu Glu Asn Cys Asp Ile Phe Gln Asn Leu Thr Lys Lys Gln Arg Gln
485 490 495
Ser Leu Arg Lys Met Val Ile Asp Ile Val Leu Ala Thr Asp Met Ser
500 505 510
Lys His Met Asn Leu Leu Ala Asp Leu Lys Thr Met Val Glu Thr Lys
515 520 525
Lys Val Thr Ser Ser Gly Val Leu Leu Leu Asp Asn Tyr Ser Asp Arg
530 535 540
Ile Gln Val Leu Gln Asn Met Val His Cys Ala Asp Leu Ser Asn Pro
545 550 555 560
Thr Lys Pro Leu Gln Leu Tyr Arg Gln Trp Thr Asp Arg Ile Met Glu
565 570 575
Glu Phe Phe Arg Gln Gly Asp Arg Glu Arg Glu Arg Gly Met Glu Ile
580 585 590
Ser Pro Met Cys Asp Lys His Asn Ala Ser Val Glu Lys Ser Gln Val
595 600 605
Gly Phe Ile Asp Tyr Ile Val His Pro Leu Trp Glu Thr Trp Ala Asp
610 615 620
Leu Val His Pro Asp Ala Gln Asp Ile Leu Asp Thr Leu Glu Asp Asn
625 630 635 640
Arg Glu Trp Tyr Gln Ser Thr Ile Pro Gln Ser Pro Ser Pro Ala Pro
645 650 655
Asp Asp Pro Glu Glu Gly Arg Gln Gly Gln Thr Glu Lys Phe Gln Phe
660 665 670
Glu Leu Thr Leu Glu Glu Asp Gly Glu Ser Asp Thr Glu Lys Asp Ser
675 680 685
Gly Ser Gln Val Glu Glu Asp Thr Ser Cys Ser Asp Ser Lys Thr Leu
690 695 700
Cys Thr Gln Asp Ser Glu Ser Thr Glu Ile Pro Leu Asp Glu Gln Val
705 710 715 720
Glu Glu Glu Ala Val Gly Glu Glu Glu Glu Ser Gln Pro Glu Ala Cys
725 730 735
Val Ile Asp Asp Arg Ser Pro Asp Thr
740 745

<210> 5
<211> 215
<212> PRT
<213> Homo Sapien

<400> 5

Met Ala Gln Gln Thr Ser Pro Asp Thr Leu Thr Val Pro Glu Val Asp
1 5 10 15
Asn Pro His Cys Pro Asn Pro Trp Leu Asn Glu Asp Leu Val Lys Ser
20 25 30
Leu Arg Glu Asn Leu Leu Gln His Glu Lys Ser Lys Thr Ala Arg Lys
35 40 45
Ser Val Ser Pro Lys Leu Ser Pro Val Ile Ser Pro Arg Asn Ser Pro
50 55 60
Arg Leu Leu Arg Arg Met Leu Leu Ser Ser Asn Ile Pro Lys Gln Arg
65 70 75 80

Fig. 7.4

Arg Phe Thr Val Ala His Thr Cys Phe Asp Val Asp Asn Gly Thr Ser
85 90 95
Ala Gly Arg Ser Pro Leu Asp Pro Met Thr Ser Pro Gly Ser Gly Leu
100 105 110
Ile Leu Gln Ala Asn Phe Val His Ser Gln Arg Arg Glu Ser Phe Leu
115 120 125
Tyr Arg Ser Asp Ser Asp Tyr Asp Leu Ser Pro Lys Ser Met Ser Arg
130 135 140
Asn Ser Ser Ile Ala Ser Asp Ile His Gly Asp Asp Leu Ile Val Thr
145 150 155 160
Pro Phe Ala Gln Val Leu Ala Ser Leu Arg Thr Val Arg Asn Asn Phe
165 170 175
Ala Ala Leu Thr Asn Leu Gln Asp Arg Ala Pro Ser Lys Arg Ser Pro
180 185 190
Met Cys Asn Gln Pro Ser Ile Asn Lys Ala Thr Ile Thr Gly Leu Tyr
195 200 205
Asn Gly Ile Ile Ala Phe Leu
210 215

<210> 6
<211> 673
<212> PRT
<213> Homo Sapien

<400> 6
Met Met His Val Asn Asn Phe Pro Phe Arg Arg His Ser Trp Ile Cys
1 5 10 15
Phe Asp Val Asp Asn Gly Thr Ser Ala Gly Arg Ser Pro Leu Asp Pro
20 25 30
Met Thr Ser Pro Gly Ser Gly Leu Ile Leu Gln Ala Asn Phe Val His
35 40 45
Ser Gln Arg Arg Glu Ser Phe Leu Tyr Arg Ser Asp Ser Asp Tyr Asp
50 55 60
Leu Ser Pro Lys Ser Met Ser Arg Asn Ser Ser Ile Ala Ser Asp Ile
65 70 75 80
His Gly Asp Asp Leu Ile Val Thr Pro Phe Ala Gln Val Leu Ala Ser
85 90 95
Leu Arg Thr Val Arg Asn Asn Phe Ala Ala Leu Thr Asn Leu Gln Asp
100 105 110
Arg Ala Pro Ser Lys Arg Ser Pro Met Cys Asn Gln Pro Ser Ile Asn
115 120 125
Lys Ala Thr Ile Thr Glu Glu Ala Tyr Gln Lys Leu Ala Ser Glu Thr
130 135 140
Leu Glu Glu Leu Asp Trp Cys Leu Asp Gln Leu Glu Thr Leu Gln Thr
145 150 155 160
Arg His Ser Val Ser Glu Met Ala Ser Asn Lys Phe Lys Arg Met Leu
165 170 175

Asn Arg Glu Leu Thr His Leu Ser Glu Met Ser Arg Ser Gly Asn Gln
180 185 190
Val Ser Glu Phe Ile Ser Asn Thr Phe Leu Asp Lys Gln His Glu Val
195 200 205
Glu Ile Pro Ser Pro Thr Gln Lys Glu Lys Glu Lys Lys Lys Arg Pro
210 215 220
Met Ser Gln Ile Ser Gly Val Lys Lys Leu Met His Ser Ser Ser Leu
225 230 235 240
Thr Asn Ser Ser Ile Pro Arg Phe Gly Val Lys Thr Glu Gln Glu Asp
245 250 255
Val Leu Ala Lys Glu Leu Glu Asp Val Asn Lys Trp Gly Leu His Val
260 265 270
Phe Arg Ile Ala Glu Leu Ser Gly Asn Arg Pro Leu Thr Val Ile Met
275 280 285
His Thr Ile Phe Gln Glu Arg Asp Leu Leu Lys Thr Phe Lys Ile Pro
290 295 300

Fig. 7.5

Val Asp Thr Leu Ile Thr Tyr Leu Met Thr Leu Glu Asp His Tyr His
305 310 315 320
Ala Asp Val Ala Tyr His Asn Asn Ile His Ala Ala Asp Val Val Gln
325 330 335
Ser Thr His Val Leu Leu Ser Thr Pro Ala Leu Glu Ala Val Phe Thr
340 345 350
Asp Leu Glu Ile Leu Ala Ala Ile Phe Ala Ser Ala Ile His Asp Val
355 360 365
Asp His Pro Gly Val Ser Asn Gln Phe Leu Ile Asn Thr Asn Ser Glu
370 375 380
Leu Ala Leu Met Tyr Asn Asp Ser Ser Val Leu Glu Asn His His Leu
385 390 395 400
Ala Val Gly Phe Lys Leu Leu Gln Glu Glu Asn Cys Asp Ile Phe Gln
405 410 415
Asn Leu Thr Lys Lys Gln Arg Gln Ser Leu Arg Lys Met Val Ile Asp
420 425 430
Ile Val Leu Ala Thr Asp Met Ser Lys His Met Asn Leu Leu Ala Asp
435 440 445
Leu Lys Thr Met Val Glu Thr Lys Lys Val Thr Ser Ser Gly Val Leu
450 455 460
Leu Leu Asp Asn Tyr Ser Asp Arg Ile Gln Val Leu Gln Asn Met Val
465 470 475 480
His Cys Ala Asp Leu Ser Asn Pro Thr Lys Pro Leu Gln Leu Tyr Arg
485 490 495
Gln Trp Thr Asp Arg Ile Met Glu Glu Phe Phe Arg Gln Gly Asp Arg
500 505 510
Glu Arg Glu Arg Gly Met Glu Ile Ser Pro Met Cys Asp Lys His Asn
515 520 525
Ala Ser Val Glu Lys Ser Gln Val Gly Phe Ile Asp Tyr Ile Val His
530 535 540
Pro Leu Trp Glu Thr Trp Ala Asp Leu Val His Pro Asp Ala Gln Asp
545 550 555 560
Ile Leu Asp Thr Leu Glu Asp Asn Arg Glu Trp Tyr Gln Ser Thr Ile
565 570 575
Pro Gln Ser Pro Ser Pro Ala Pro Asp Asp Pro Glu Glu Gly Arg Gln
580 585 590
Gly Gln Thr Glu Lys Phe Gln Phe Glu Leu Thr Leu Glu Glu Asp Gly
595 600 605
Glu Ser Asp Thr Glu Lys Asp Ser Gly Ser Gln Val Glu Glu Asp Thr
610 615 620
Ser Cys Ser Asp Ser Lys Thr Leu Cys Thr Gln Asp Ser Glu Ser Thr
625 630 635 640

Glu Ile Pro Leu Asp Glu Gln Val Glu Glu Glu Ala Val Gly Glu Glu
645 650 655
Glu Glu Ser Gln Pro Glu Ala Cys Val Ile Asp Asp Arg Ser Pro Asp
660 665 670
Thr

<210> 7
<211> 15
<212> PRT
<213> Homo Sapien

<400> 7
Met Met His Val Asn Asn Phe Pro Phe Arg Arg His Ser Trp Ile
1 5 10 15

<210> 8
<211> 687
<212> PRT
<213> Homo Sapien

<400> 8

Fig. 7.6

```
Met Ala Phe Val Trp Asp Pro Leu Gly Ala Thr Val Pro Gly Pro Ser
1               5                   10                  15
Thr Arg Ala Lys Ser Arg Leu Arg Phe Ser Lys Ser Tyr Ser Phe Asp
            20                  25                  30
Val Asp Asn Gly Thr Ser Ala Gly Arg Ser Pro Leu Asp Pro Met Thr
        35                  40                  45
Ser Pro Gly Ser Gly Leu Ile Leu Gln Ala Asn Phe Val His Ser Gln
    50                  55                  60
Arg Arg Glu Ser Phe Leu Tyr Arg Ser Asp Ser Asp Tyr Asp Leu Ser
65                  70                  75                  80
Pro Lys Ser Met Ser Arg Asn Ser Ser Ile Ala Ser Asp Ile His Gly
                85                  90                  95
Asp Asp Leu Ile Val Thr Pro Phe Ala Gln Val Leu Ala Ser Leu Arg
            100                 105                 110
Thr Val Arg Asn Asn Phe Ala Ala Leu Thr Asn Leu Gln Asp Arg Ala
        115                 120                 125
Pro Ser Lys Arg Ser Pro Met Cys Asn Gln Pro Ser Ile Asn Lys Ala
    130                 135                 140
Thr Ile Thr Glu Glu Ala Tyr Gln Lys Leu Ala Ser Glu Thr Leu Glu
145                 150                 155                 160
Glu Leu Asp Trp Cys Leu Asp Gln Leu Glu Thr Leu Gln Thr Arg His
                165                 170                 175
Ser Val Ser Glu Met Ala Ser Asn Lys Phe Lys Arg Met Leu Asn Arg
            180                 185                 190
Glu Leu Thr His Leu Ser Glu Met Ser Arg Ser Gly Asn Gln Val Ser
        195                 200                 205
Glu Phe Ile Ser Asn Thr Phe Leu Asp Lys Gln His Glu Val Glu Ile
    210                 215                 220
Pro Ser Pro Thr Gln Lys Glu Lys Glu Lys Lys Lys Arg Pro Met Ser
225                 230                 235                 240
Gln Ile Ser Gly Val Lys Lys Leu Met His Ser Ser Ser Leu Thr Asn
                245                 250                 255
Ser Ser Ile Pro Arg Phe Gly Val Lys Thr Glu Gln Glu Asp Val Leu
            260                 265                 270
Ala Lys Glu Leu Glu Asp Val Asn Lys Trp Gly Leu His Val Phe Arg
        275                 280                 285
Ile Ala Glu Leu Ser Gly Asn Arg Pro Leu Thr Val Ile Met His Thr
    290                 295                 300
Ile Phe Gln Glu Arg Asp Leu Leu Lys Thr Phe Lys Ile Pro Val Asp
305                 310                 315                 320
Thr Leu Ile Thr Tyr Leu Met Thr Leu Glu Asp His Tyr His Ala Asp
                325                 330                 335
Val Ala Tyr His Asn Asn Ile His Ala Ala Asp Val Val Gln Ser Thr
            340                 345                 350
His Val Leu Leu Ser Thr Pro Ala Leu Glu Ala Val Phe Thr Asp Leu
        355                 360                 365
Glu Ile Leu Ala Ala Ile Phe Ala Ser Ala Ile His Asp Val Asp His
    370                 375                 380
Pro Gly Val Ser Asn Gln Phe Leu Ile Asn Thr Asn Ser Glu Leu Ala
385                 390                 395                 400
Leu Met Tyr Asn Asp Ser Ser Val Leu Glu Asn His His Leu Ala Val
                405                 410                 415
Gly Phe Lys Leu Leu Gln Glu Glu Asn Cys Asp Ile Phe Gln Asn Leu
            420                 425                 430
Thr Lys Lys Gln Arg Gln Ser Leu Arg Lys Met Val Ile Asp Ile Val
        435                 440                 445
Leu Ala Thr Asp Met Ser Lys His Met Asn Leu Leu Ala Asp Leu Lys
    450                 455                 460
Thr Met Val Glu Thr Lys Lys Val Thr Ser Ser Gly Val Leu Leu Leu
465                 470                 475                 480
Asp Asn Tyr Ser Asp Arg Ile Gln Val Leu Gln Asn Met Val His Cys
                485                 490                 495
Ala Asp Leu Ser Asn Pro Thr Lys Pro Leu Gln Leu Tyr Arg Gln Trp
            500                 505                 510
Thr Asp Arg Ile Met Glu Glu Phe Phe Arg Gln Gly Asp Arg Glu Arg
        515                 520                 525
```

Fig. 7.7

Glu Arg Gly Met Glu Ile Ser Pro Met Cys Asp Lys His Asn Ala Ser
530 535 540
Val Glu Lys Ser Gln Val Gly Phe Ile Asp Tyr Ile Val His Pro Leu
545 550 555 560
Trp Glu Thr Trp Ala Asp Leu Val His Pro Asp Ala Gln Asp Ile Leu
565 570 575
Asp Thr Leu Glu Asp Asn Arg Glu Trp Tyr Gln Ser Thr Ile Pro Gln
580 585 590
Ser Pro Ser Pro Ala Pro Asp Asp Pro Glu Glu Gly Arg Gln Gly Gln
595 600 605
Thr Glu Lys Phe Gln Phe Glu Leu Thr Leu Glu Glu Asp Gly Glu Ser
610 615 620
Asp Thr Glu Lys Asp Ser Gly Ser Gln Val Glu Glu Asp Thr Ser Cys
625 630 635 640
Ser Asp Ser Lys Thr Leu Cys Thr Gln Asp Ser Glu Ser Thr Glu Ile
645 650 655
Pro Leu Asp Glu Gln Val Glu Glu Glu Ala Val Gly Glu Glu Glu Glu
660 665 670
Ser Gln Pro Glu Ala Cys Val Ile Asp Asp Arg Ser Pro Asp Thr
675 680 685

<210> 9
<211> 585
<212> PRT
<213> Homo Sapien

<400> 9
Met Lys Glu Gln Pro Ser Cys Ala Gly Thr Gly His Pro Ser Met Ala
1 5 10 15
Gly Tyr Gly Arg Met Ala Pro Phe Glu Leu Ala Ser Gly Pro Val Lys
20 25 30
Arg Leu Arg Thr Glu Ser Pro Phe Pro Cys Leu Phe Ala Glu Glu Ala
35 40 45
Tyr Gln Lys Leu Ala Ser Glu Thr Leu Glu Glu Leu Asp Trp Cys Leu
50 55 60
Asp Gln Leu Glu Thr Leu Gln Thr Arg His Ser Val Ser Glu Met Ala
65 70 75 80
Ser Asn Lys Phe Lys Arg Met Leu Asn Arg Glu Leu Thr His Leu Ser
85 90 95
Glu Met Ser Arg Ser Gly Asn Gln Val Ser Glu Phe Ile Ser Asn Thr
100 105 110
Phe Leu Asp Lys Gln His Glu Val Glu Ile Pro Ser Pro Thr Gln Lys
115 120 125
Glu Lys Glu Lys Lys Lys Arg Pro Met Ser Gln Ile Ser Gly Val Lys
130 135 140
Lys Leu Met His Ser Ser Ser Leu Thr Asn Ser Ser Ile Pro Arg Phe
145 150 155 160
Gly Val Lys Thr Glu Gln Glu Asp Val Leu Ala Lys Glu Leu Glu Asp
165 170 175
Val Asn Lys Trp Gly Leu His Val Phe Arg Ile Ala Glu Leu Ser Gly
180 185 190
Asn Arg Pro Leu Thr Val Ile Met His Thr Ile Phe Gln Glu Arg Asp
195 200 205
Leu Leu Lys Thr Phe Lys Ile Pro Val Asp Thr Leu Ile Thr Tyr Leu
210 215 220
Met Thr Leu Glu Asp His Tyr His Ala Asp Val Ala Tyr His Asn Asn
225 230 235 240
Ile His Ala Ala Asp Val Val Gln Ser Thr His Val Leu Leu Ser Thr
245 250 255
Pro Ala Leu Glu Ala Val Phe Thr Asp Leu Glu Ile Leu Ala Ala Ile
260 265 270
Phe Ala Ser Ala Ile His Asp Val Asp His Pro Gly Val Ser Asn Gln
275 280 285
Phe Leu Ile Asn Thr Asn Ser Glu Leu Ala Leu Met Tyr Asn Asp Ser
290 295 300

Fig. 7.8

Ser Val Leu Glu Asn His His Leu Ala Val Gly Phe Lys Leu Leu Gln
305 310 315 320
Glu Glu Asn Cys Asp Ile Phe Gln Asn Leu Thr Lys Lys Gln Arg Gln
325 330 335
Ser Leu Arg Lys Met Val Ile Asp Ile Val Leu Ala Thr Asp Met Ser
340 345 350
Lys His Met Asn Leu Leu Ala Asp Leu Lys Thr Met Val Glu Thr Lys
355 360 365
Lys Val Thr Ser Ser Gly Val Leu Leu Leu Asp Asn Tyr Ser Asp Arg
370 375 380
Ile Gln Val Leu Gln Asn Met Val His Cys Ala Asp Leu Ser Asn Pro
385 390 395 400
Thr Lys Pro Leu Gln Leu Tyr Arg Gln Trp Thr Asp Arg Ile Met Glu
405 410 415
Glu Phe Phe Arg Gln Gly Asp Arg Glu Arg Glu Arg Gly Met Glu Ile
420 425 430
Ser Pro Met Cys Asp Lys His Asn Ala Ser Val Glu Lys Ser Gln Val
435 440 445
Gly Phe Ile Asp Tyr Ile Val His Pro Leu Trp Glu Thr Trp Ala Asp
450 455 460
Leu Val His Pro Asp Ala Gln Asp Ile Leu Asp Thr Leu Glu Asp Asn
465 470 475 480
Arg Glu Trp Tyr Gln Ser Thr Ile Pro Gln Ser Pro Ser Pro Ala Pro
485 490 495
Asp Asp Pro Glu Glu Gly Arg Gln Gly Gln Thr Glu Lys Phe Gln Phe
500 505 510
Glu Leu Thr Leu Glu Glu Asp Gly Glu Ser Asp Thr Glu Lys Asp Ser
515 520 525
Gly Ser Gln Val Glu Glu Asp Thr Ser Cys Ser Asp Ser Lys Thr Leu
530 535 540
Cys Thr Gln Asp Ser Glu Ser Thr Glu Ile Pro Leu Asp Glu Gln Val
545 550 555 560
Glu Glu Glu Ala Val Gly Glu Glu Glu Glu Ser Gln Pro Glu Ala Cys
565 570 575
Val Ile Asp Asp Arg Ser Pro Asp Thr
580 585

<210> 10
<211> 507
<212> PRT
<213> Homo Sapien

<400> 10
Met Ala Ser Asn Lys Phe Lys Arg Met Leu Asn Arg Glu Leu Thr His
1 5 10 15
Leu Ser Glu Met Ser Arg Ser Gly Asn Gln Val Ser Glu Phe Ile Ser
20 25 30
Asn Thr Phe Leu Asp Lys Gln His Glu Val Glu Ile Pro Ser Pro Thr
35 40 45
Gln Lys Glu Lys Glu Lys Lys Lys Arg Pro Met Ser Gln Ile Ser Gly
50 55 60
Val Lys Lys Leu Met His Ser Ser Ser Leu Thr Asn Ser Ser Ile Pro
65 70 75 80
Arg Phe Gly Val Lys Thr Glu Gln Glu Asp Val Leu Ala Lys Glu Leu
85 90 95
Glu Asp Val Asn Lys Trp Gly Leu His Val Phe Arg Ile Ala Glu Leu
100 105 110
Ser Gly Asn Arg Pro Leu Thr Val Ile Met His Thr Ile Phe Gln Glu
115 120 125
Arg Asp Leu Leu Lys Thr Phe Lys Ile Pro Val Asp Thr Leu Ile Thr
130 135 140
Tyr Leu Met Thr Leu Glu Asp His Tyr His Ala Asp Val Ala Tyr His
145 150 155 160
Asn Asn Ile His Ala Ala Asp Val Val Gln Ser Thr His Val Leu Leu
165 170 175

Fig. 7.9

```
Ser Thr Pro Ala Leu Glu Ala Val Phe Thr Asp Leu Glu Ile Leu Ala
            180                 185                 190
Ala Ile Phe Ala Ser Ala Ile His Asp Val Asp His Pro Gly Val Ser
        195                 200                 205
Asn Gln Phe Leu Ile Asn Thr Asn Ser Glu Leu Ala Leu Met Tyr Asn
    210                 215                 220
Asp Ser Ser Val Leu Glu Asn His His Leu Ala Val Gly Phe Lys Leu
225                 230                 235                 240
Leu Gln Glu Glu Asn Cys Asp Ile Phe Gln Asn Leu Thr Lys Lys Gln
                245                 250                 255
Arg Gln Ser Leu Arg Lys Met Val Ile Asp Ile Val Leu Ala Thr Asp
            260                 265                 270

Met Ser Lys His Met Asn Leu Leu Ala Asp Leu Lys Thr Met Val Glu
        275                 280                 285
Thr Lys Lys Val Thr Ser Ser Gly Val Leu Leu Leu Asp Asn Tyr Ser
    290                 295                 300
Asp Arg Ile Gln Val Leu Gln Asn Met Val His Cys Ala Asp Leu Ser
305                 310                 315                 320
Asn Pro Thr Lys Pro Leu Gln Leu Tyr Arg Gln Trp Thr Asp Arg Ile
                325                 330                 335
Met Glu Glu Phe Phe Arg Gln Gly Asp Arg Glu Arg Glu Arg Gly Met
            340                 345                 350
Glu Ile Ser Pro Met Cys Asp Lys His Asn Ala Ser Val Glu Lys Ser
        355                 360                 365
Gln Val Gly Phe Ile Asp Tyr Ile Val His Pro Leu Trp Glu Thr Trp
    370                 375                 380
Ala Asp Leu Val His Pro Asp Ala Gln Asp Ile Leu Asp Thr Leu Glu
385                 390                 395                 400
Asp Asn Arg Glu Trp Tyr Gln Ser Thr Ile Pro Gln Ser Pro Ser Pro
                405                 410                 415
Ala Pro Asp Asp Pro Glu Glu Gly Arg Gln Gly Gln Thr Glu Lys Phe
            420                 425                 430
Gln Phe Glu Leu Thr Leu Glu Glu Asp Gly Glu Ser Asp Thr Glu Lys
        435                 440                 445
Asp Ser Gly Ser Gln Val Glu Glu Asp Thr Ser Cys Ser Asp Ser Lys
    450                 455                 460
Thr Leu Cys Thr Gln Asp Ser Glu Ser Thr Glu Ile Pro Leu Asp Glu
465                 470                 475                 480
Gln Val Glu Glu Glu Ala Val Gly Glu Glu Glu Glu Ser Gln Pro Glu
                485                 490                 495
Ala Cys Val Ile Asp Asp Arg Ser Pro Asp Thr
            500                 505
```

Fig. 7.10

Exon start Exon end		142207 142328	444645 444775	641649 641878	736254 737226	861791 862202	1044051 1044190	1273404 1273709	1354347 1355128	1414511 1414702	1436943 1436979	1445217 1445290
	Exons	4D7-1	4D7-2	4D7-3	4D4	4D5	4D3	4D6	4D8	LF1	LF2	LF3
mRNA/cDNA variants	Isoform											
UO2882										*	*	*
L20969	4D4				*					*	*	*
AF012073	4D5					*				*	*	*
L20970	4D3						*			*	*	*
AF012074	4D2											
U50159	4D3						*			*	*	*
U50158	4D2											
U50157	4D1											
AJ250854	4DN3					*				*	*	*
NM_006203	4D4				*					*	*	*
AJ250852	4DN1									*	*	*
AJ250855	4DN2				*					*	*	*
BC008390	4DN3					*				*	*	*
novel cDNA identified by deCODE												
RT-PCR	4D6							*		*	*	*
CAP-RACE	4D7	*	*	*						*	*	*
CAP-RACE	4D8								*	*	*	*

Fig. 8A

1449835 1449884 LF4	1472965 1473236 N3	1591172 1591542 4D1/D2	1636944 1637037 ex3	1638406 1638578 ex4	1639508 1639606 ex5	1640491 1640655 ex6	1641818 1641917 ex7	1653070 1653224 ex8	1653943 1654065 ex9	1654576 1654758 ex10	1655335 1655747 ex11
*		*	*	*	*	*	*	*	*	*	*
*		*	*	*	*	*	*	*	*	*	*
*		*	*	*	*	*	*	*			
*		*	*	*	*	*	*	*	*	*	*
			*	*	*	*	*	*	*	*	*
*		*	*	*	*	*	*	*	*	*	*
			*	*	*	*	*	*	*	*	*
		*	*	*	*	*	*	*	*	*	*
*		*	*	*	*	*	*	*	*	*	*
*		*	*	*	*	*	*	*	*	*	*
		*	*	*	*	*	*	*	*	*	*
*			*	*	*	*	*	*	*	*	*
*	*	*	*	*	*	*	*	*	*	*	*
*		*	*	*	*	*	*	*	*	*	*
*		*	*	*	*	*	*	*	*	*	*
*		*	*	*	*	*	*	*	*	*	*

Fig. 8B

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
26 September 2002 (26.09.2002)

PCT

(10) International Publication Number
WO 2002/074992 A3

(51) International Patent Classification[7]: C12N 9/16, C12Q 1/68, C12N 15/52, A61K 38/46

(21) International Application Number: PCT/IB2002/000565

(22) International Filing Date: 25 February 2002 (25.02.2002)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
09/811,352 19 March 2001 (19.03.2001) US
10/067,514 4 February 2002 (04.02.2002) US

(63) Related by continuation (CON) or continuation-in-part (CIP) to earlier applications:
US 09/811,352 (CON)
Filed on 19 March 2001 (19.03.2001)
US Not furnished (CON)
Filed on 4 February 2002 (04.02.2002)

(71) Applicant *(for all designated States except US)*: **DECODE GENETICS EHF.** [IS/IS]; Sturlugötu 8, IS-101 Reykjavik (IS).

(72) Inventors; and

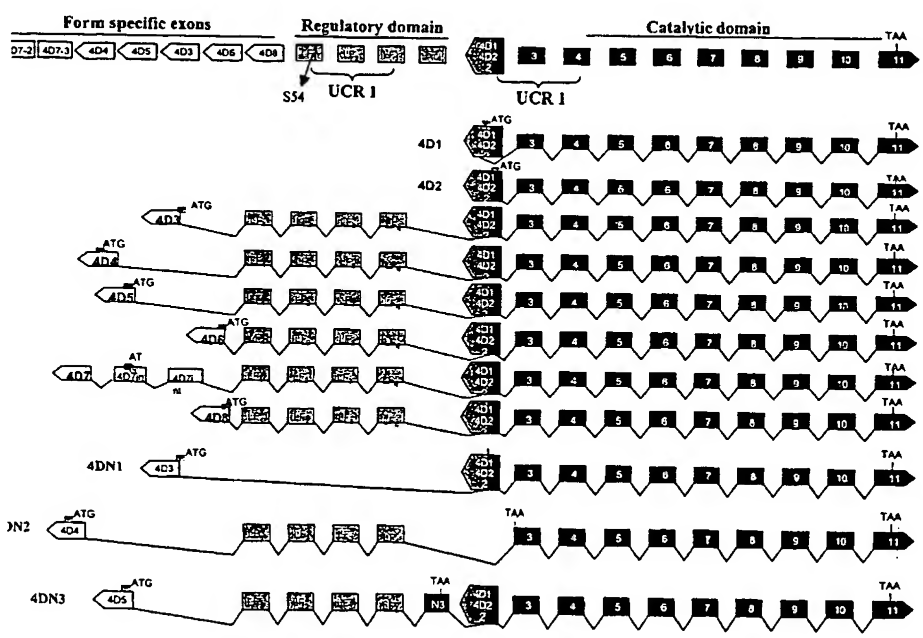
(75) Inventors/Applicants *(for US only)*: **GRETARSDOTTIR, Solveig** [IS/IS]; Smaragata 6, IS-101 Reykjavik (IS). **JONSDOTTIR, Sif** [IS/IS]; Vesturgata 73, IS-101 Reykjavik (IS). **REYNISDOTTIR, Sigridur, Th.** [IS/IS]; Storagerdi 8, IS-108 Reykjavik (IS).

(81) Designated States *(national)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW.

(84) Designated States *(regional)*: ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: PHOSPHODIESTERASE 4D GENES RELATED TO HUMAN STROKE



(57) Abstract: A role of the human PDE4D gene in stroke is disclosed. New exons, referred to as 4D7-1, 4D7-2, 4D7-3, 4D6 and 4D have been identified. Moreover, three splice variants have been identified. Methods for diagnosis, predictions of clinical course and treatment for stroke using polymorphisms in the PDE4D gene are also disclosed.

WO 2002/074992 A3

Published:
— *with international search report*

(88) Date of publication of the international search report: 8 April 2004

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

International Application No
PCT/IB 02/00565

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C12N9/16 C12Q1/68 C12N15/52 A61K38/46

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 C12N C12Q A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	GRAEME B BOLGER ET AL: "Characterization of five different proteins produced by alternatively spliced mRNAs from the human cAMP-specific phosphodiesterase PDE4D gene" BIOCHEMICAL JOURNAL, PORTLAND PRESS, LONDON, GB, vol. 328, 1997, pages 539-548, XP002150449 ISSN: 0264-6021 the whole document	1-18,22, 26,30, 32,34, 35,39, 40,42, 43,47-50
A		19-21,59

	-/--	

[X] Further documents are listed in the continuation of box C.

[X] Patent family members are listed in annex.

° Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
23 October 2002	05. 03. 2003

Name and mailing address of the ISA	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Patrick Andersson

2

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	XAVIER MIRÓ ET AL: "Phosphodiesterases 4D and 7A splice variants in the response of HUVEC cells to TNF-alpha1." BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, vol. 274, 2000, pages 415-421, XP002902795 ACADEMIC PRESS ISSN: 0006-291X the whole document	1-18,22, 26,30, 32,34, 35,39, 40,42, 43,47-58
A		19,20,59
X	WO 01 00851 A (MEMORY PHARMACEUTICAL CORP) 4 January 2001 (2001-01-04) the whole document	1-18,22, 26,30, 32,34, 35,39, 40,42, 43,47-58
A		19-21,59
X	WO 00 23091 A (SCUDDER KURT MARSHALL ;BIOIMAGE A S (DK); THASTRUP OLE (DK); BJOER) 27 April 2000 (2000-04-27) the whole document	1-18,22, 26,30, 32,34, 35,39, 40,42, 43,47-58
A		19-21,59
X	WO 00 40714 A (ARROW AMY ;OLIGOS ETC INC (US); THOMPSON TERRY (US); DALE RODERIC) 13 July 2000 (2000-07-13) the whole document	30, 48-51, 54-58
A		59
A	WO 00 77226 A (KAPELLER LIBERMANN ROSANA ;WHITE DAVID (US); ROBISON KEITH E (US);) 21 December 2000 (2000-12-21) the whole document	1-22,26, 30,32, 34,35, 39,40, 42,43, 47-59

2

INTERNATIONAL SEARCH REPORT

International application No.
PCT/IB 02/00565

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. [X] Claims Nos.: 19, 44-46
because they relate to subject matter not required to be searched by this Authority, namely:

   see FURTHER INFORMATION sheet PCT/ISA/210

2. [X] Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:

   see FURTHER INFORMATION sheet PCT/ISA/210

3. [ ] Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

   see additional sheet

1. [ ] As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.

2. [ ] As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.

3. [ ] As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:

4. [X] No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

   1-59 (partially)

Remark on Protest

[ ] The additional search fees were accompanied by the applicant's protest.

[ ] No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-59 (partially)

   Each sequence of SEQ ID 1-10 and 12 represent one invention.

2. Claims: 1-59 (partially)

   Each sequence of SEQ ID 1-10 and 12 represent one invention.

3. Claims: 1-59 (partially)

   Each sequence of SEQ ID 1-10 and 12 represent one invention.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.1

Claims Nos.: 19, 44-46

Claims 19, 44-46 relate to methods of treatment of the human or animal body by surgery or by therapy / diagnostic methods practised on the human or animal body / Rule 39.1(iv). Nevertheless, a search has been executed for these claims. The search has been based on the alleged effects of the compounds/ compositions.

Continuation of Box I.2

Claims Nos.: 23-25,27-29,31, 33, 36-38, 41, 44-46 and parts of 40 and 42.

Claims 23-25, 27-29, 31, 33, 36-38, 41, 44-46 and parts of claims 40 and 42 relate to agents interacting with a polypeptide encoded by a phosphodiesterase 4D gene or the expression of this gene.
These claims could include known compounds e.g. known phosphodiesterase inhibitors. Moreover, the description does not give any example of such substance. Identification of agents with the claimed methods does not give the identified agents PER SE any unique propertiess and thus, the description lacks disclosure and the claim lacks support within the meaning of PCT Articles 5 and 6.
A meaningful search of claims 23-25, 27-29, 31, 33, 36-38, 41, 44-46 and parts of claims 40 and 42 is impossible and consequently, the claims have not been searched.

The following parts of claims 40 and 42 have been searched: A phosphodiesterase 4D gene PER SE; fragments, variants or derivates is considered to be unclear, e.g. fragment could in its extreme be one single nucleotide.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

INTERNATIONAL SEARCH REPORT

International Application No
PCT/IB 02/00565

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
WO 0100851	A	04-01-2001	AU	5886400 A	31-01-2001
			EP	1190070 A1	27-03-2002
			JP	2003503063 T	28-01-2003
			WO	0100851 A1	04-01-2001
WO 0023091	A	27-04-2000	AU	6189999 A	08-05-2000
			WO	0023091 A2	27-04-2000
			EP	1146888 A2	24-10-2001
WO 0040714	A	13-07-2000	AU	2480800 A	24-07-2000
			CA	2357950 A1	13-07-2000
			EP	1141278 A2	10-10-2001
			JP	2002534086 T	15-10-2002
			WO	0040714 A2	13-07-2000
WO 0077226	A	21-12-2000	US	6146876 A	14-11-2000
			AU	5608000 A	02-01-2001
			EP	1192261 A1	03-04-2002
			JP	2003502046 T	21-01-2003
			WO	0077226 A1	21-12-2000